WEBVTT

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Rae Barton: Welcome everyone to this week's Red List Weekly webinar. We're so grateful to everyone that has taken the time out of their busy day to come, join us and learn a little bit more about charting. I am so pleased to be able to be joined by our CEO tal Wagstaff today. He is. He's been doing this for a long time now. He started red list in

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00:00:30.320 --> 00:00:40.609

Rae Barton: 2014. So it's been over a decade tile. Did you expect for it to go on this long? Oh, yeah, I expect it to go on until

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Rae Barton: until I'm in my grave. Right? So Tal actually worked at his family's Crane company throughout his life. I think I remember watching a video where you said that you kind of started like

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Rae Barton: changing stuff on cranes when you're about 5 years old. That was not necessarily changing it. But that was Saturdays with Dad was greasing the cranes and changing the oil, and then you moved on to be a seller for Exxon Mobil for a while.

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00:01:11.810 --> 00:01:30.730

Rae Barton: Yeah, I don't know if I'd call myself a seller, but lubrication engineer would probably be a more favorable term for me. And then, of course, you saw some similarities between the 2 companies and the way that they handled the assets, and thus the vision for Red List was born. Yeah.

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00:01:31.190 --> 00:01:42.079

Rae Barton: that's that's kind of where where it all started definitely saw a lot of you know, similarities between small small businesses and small and big businesses. They all kind of have the same

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Rae Barton: same problems with reliability and lubrication and operators. And

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00:01:46.340 --> 00:01:55.075

Rae Barton: that's kind of why red list exists. So you're gonna see me and tell looking at each other a lot with that right across from each other.

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00:01:55.700 --> 00:02:19.390

Rae Barton: tal, I'm going to let you take it away with our webinar today, which is, of course, about well, actually, before we get on, that's good. I want to bring up red list attain. It's going to be happening October 13, th through 15 in Provo, Utah. We are going to be releasing the materials for you to sign up really, really, soon. Within the next couple of weeks we'd love for everyone to join everyone that came last year.

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Rae Barton: We'd love them to come again. Attain is our user conference that we will be holding once a year in the Utah area.

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00:02:27.320 --> 00:02:30.170

Rae Barton: for the foreseeable future. So we'd love it if you could join.

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00:02:30.980 --> 00:02:45.879

Rae Barton: Thanks. Yeah, that's an exciting event. Had a great one last year. Lots of changes coming with AI. I know that's kind of a buzzword, so I'll save you the the AI sales pitch, but we really do see it moving the needle in the industry.

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00:02:46.110 --> 00:02:50.680

Rae Barton: and we're excited to kind of do a yearly conference on that. So

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00:02:51.200 --> 00:03:01.710

Rae Barton: if there's no other, nothing else, Ray, I'll I'll jump in and get started. Sounds great cool. So yeah, today's topic we'll probably we'll probably get through it in about a half hour to 45Â min.

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00:03:01.850 --> 00:03:12.989

Rae Barton: But we're gonna be. We're gonna be covering just what what is called in the industry loop charting from kind of a high level. We'll start with

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00:03:13.260 --> 00:03:16.399

Rae Barton: going through a few very simple points

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00:03:16.896 --> 00:03:40.423

Rae Barton: just to help you. And why loop charting is important. Why, it's needed. Then we'll get into the weeds. We'll actually do some live walkthroughs. I'll switch from Powerpoint over to the live platform and hopefully, you know, switching screens from Powerpoint over to my my phone works out. We may have a small pause there while I do that. But so just to jump in here?

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00:03:40.880 --> 00:03:53.229

Rae Barton: Why does it matter? Why does why does doing a a loop audit, or a reliability survey or a chart mattered for your facility. I think all of us know that the lifeblood of our our businesses is

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00:03:53.380 --> 00:04:02.359

Rae Barton: really just keeping that equipment, producing and keeping it running and the challenge is that there's those kind of those 2

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00:04:02.520 --> 00:04:11.160

Rae Barton: 2 things are at odds with each other. You're trying to put it healthy, and you're trying to maximize the life of it. But you're also trying to keep it producing

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00:04:12.550 --> 00:04:22.539

Rae Barton: So putting together a survey of kind of a reliability survey of every task that's needed. Every component in your facility is

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00:04:23.693 --> 00:04:32.099

Rae Barton: very important. I'm gonna move microphone a little bit closer to me. But it's very important for keeping keeping things running the way you expect.

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00:04:33.530 --> 00:04:49.609

Rae Barton: you know, all of us in reliability kind of have a mandate from the organization. We're in charge of keeping the machine running. And that's you know, it's a simple, it's a simple elevator pitch what we do. But that's a really really difficult task. It's not a small fee.

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00:04:50.230 --> 00:04:54.659

Rae Barton: and especially if you don't have like a holistic view of what? What

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00:04:54.790 --> 00:05:02.265

Rae Barton: keeping the plant reliable means. So I've I've been in facilities before that.

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00:05:03.530 --> 00:05:26.029

Rae Barton: the the folks in charge of reliability actually have no idea how many components or lubrication points they have in their facility. And when you ask them to guess some folks have been off by as much as a factor of 10, either either low or high. So really simple question to ask yourself is, do you know how many components or loop points there are in your facility?

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00:05:26.200 --> 00:05:38.189

Rae Barton: And if you can't answer that question just like off the tip of your tongue. There's probably room for improvement, because if you don't know if you're not familiar with every loop point, or you at least don't have a database of them.

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00:05:38.689 --> 00:05:51.160

Rae Barton: You don't know where every components at you couldn't look it up very easily. It's gonna be really hard to keep it reliable and keep the machinery running, because even though we're talking about small things like bearings, gearboxes.

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00:05:51.860 --> 00:06:14.019

Rae Barton: we're talking about, you know, hydraulic systems. Just the small building blocks of your machinery, you know it is the small forgotten bearing that when it fails it it can shut down an entire line or cost you a lot production. So we all know that. That's that's why it matters so what is charting? What do I mean when when we're talking about charting.

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00:06:14.920 --> 00:06:24.610

Rae Barton: We're really talking about. I mean, before I get into the weeds. Let me just kind of describe this at a high level. We're we're talking about identifying every component in your facility

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00:06:24.860 --> 00:06:25.910

Rae Barton: and

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00:06:26.200 --> 00:06:40.649

Rae Barton: putting together a reliability plan for it. And so what that means is you're gonna describe what it takes to lubricate, inspect, and clean that component and keep it running so that the asset is running, and so that your lines are producing

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00:06:41.235 --> 00:07:04.569

Rae Barton: there's there's a lot of common terms in the industry. You might hear. You might hear some people, you know. I'm calling it loop charting. You might hear somebody call it an equipment audit or an asset survey, reliability survey. Those are all common terms for the same thing that I'm talking about here. So I'll just give a quick story. Like I was out with our team last week. We were in a facility, a packaging facility.

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Rae Barton: You know, basically, the team is walking around with our team is walking around with the customer. We're documenting all of the equipment. Typically we, we take like a list of equipment from an Erp system or a Cmms.

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00:07:19.970 --> 00:07:22.480

Rae Barton: And then we upload that into the tool.

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00:07:22.640 --> 00:07:31.760

Rae Barton: We document all the components, all the points. So we're actually taking pictures of bearings and hydraulic systems and electric motors. We're

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00:07:32.090 --> 00:07:57.790

Rae Barton: taking the pictures. And then we're also adding, like, I said, those important tasks that you have to do to keep it. Keep it lubricated. Keep it reliable, so let me jump into the the next piece here, just getting into a little little bit more of the weeds. There's there's a big challenge with keeping equipment reliable. And it's it's simpler than you may think. Solving. The problem is not simple, but describing the problem is pretty simple.

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00:07:58.240 --> 00:08:02.079

Rae Barton: the problem with keeping our equipment reliable is that our people aren't perfect.

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00:08:02.552 --> 00:08:09.639

Rae Barton: You know, we're not robots. You know, you might have a small reliability team taking care of a ton of equipment.

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00:08:09.740 --> 00:08:15.840

Rae Barton: And there's really kind of 2 problems that I boil it down to one being that

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00:08:16.060 --> 00:08:34.980

Rae Barton: I'm guessing. Your team has a hard time finding the equipment. Just that step alone is a challenge. I was on

site with a very large, very large business walking around with a reliability technician. You know, we were following some of the work orders that they were managing in in their Erp system.

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00:08:35.380 --> 00:08:52.849

Rae Barton: and you know he'd been there for a couple of decades, lots of experience, but just due to the size of the facility. It was really hard for him just to find the equipment. We spent about half of our time being lost trying to understand what the numbers meant. You know, functional locations, areas, all that.

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00:08:53.353 --> 00:08:55.829

Rae Barton: So so that's really the biggest, biggest

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00:08:56.010 --> 00:09:05.050

Rae Barton: and simplest challenges being able to find the stuff. And we'll show you in our survey tool, how you can really speed up the process of finding equipment.

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00:09:05.290 --> 00:09:07.089

Rae Barton: And then the second thing is.

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00:09:07.220 --> 00:09:17.089

Rae Barton: once you've got that down, you can actually find the equipment. It's really hard for someone who's new. A lot of us have new technicians who are in charge of this role.

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00:09:17.200 --> 00:09:44.529

Rae Barton: and it can be difficult to train them, especially if they're, you know, if it's if they've only been there for a few months or a year, whatever it can be difficult to show them the tasks that they need to do on the machinery once they've found it. So you say, you walk up to a big industrial blower. You finally found it. You know. Hooray! You check the 1st box, and then the next step is like, how do I take care of this? How do I lubricate it? What am I supposed to inspect? What am I supposed to clean?

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00:09:44.943 --> 00:09:52.149

Rae Barton: We all know, like you might hear a common term in the in the field, like amongst the technicians with that don't have

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00:09:52.360 --> 00:10:08.750

Rae Barton: by experience that oil is oil and grease is grease. So just kind of put whatever you want in wherever it needs to go. But we all know, you know, in your in your personal vehicle you wouldn't switch the transmission in the in the engine oils and just be be happy with the results. That's very important.

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00:10:08.940 --> 00:10:20.380

Rae Barton: What fluid goes in what place? It's very important how much it's a very important. How often? So we talk about. We talk about the the you know the 5 r's

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00:10:20.510 --> 00:10:35.250

Rae Barton: of reliability, making sure that you have all those boxes checked, and that it's simple for your team to access

those instructions and be able to reference them kind of without any effort. So we'll show. We'll show that step as well.

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00:10:35.965 --> 00:10:39.940

Rae Barton: What are the benefits I've kind of. I've kind of covered this already.

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00:10:40.130 --> 00:10:41.005

Rae Barton: But

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00:10:42.370 --> 00:10:44.140

Rae Barton: It's really important

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Rae Barton: to do this in order to keep your equipment lasting longer. The the term that everyone's familiar with is oee

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00:10:53.190 --> 00:11:08.579

Rae Barton: and if your Oee scores aren't where they where you want them to be, which is very common. This is a really good step to start chipping away at some of the low hanging fruit on unplanned, unplanned downtime that you might be having.

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00:11:09.000 --> 00:11:09.675

Rae Barton: So

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00:11:10.877 --> 00:11:18.529

Rae Barton: we have. We have several stories with customers where we come in. And you know we we typically like to baseline

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00:11:18.630 --> 00:11:25.379

Rae Barton: the amount of unplanned failures that they're experiencing before they do a survey

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00:11:25.550 --> 00:11:32.990

Rae Barton: and keep track of the changes that it makes over time. So a couple of examples I can give you.

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00:11:33.574 --> 00:11:39.349

Rae Barton: We were working with one company at a small, smaller facility of theirs. They were. They were having

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Rae Barton: several issues with their bearings. I think that the problem was that they had thousands of them that didn't have a chart that described where they were. So it wasn't that the team wasn't willing to go out and lubricate the bearings. It was just hard for them to find hard for them to keep track of so ultimately they were losing, I think, between 6 and 10 bearings a quarter across this entire facility.

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00:12:09.330 --> 00:12:17.250

Rae Barton: So in in any one given area, it wasn't necessarily didn't feel like a huge fire, but when they looked across the whole facility.

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00:12:17.400 --> 00:12:24.100

Rae Barton: you know, they realized that they were having more than one of these bearings an issue with the bearing on a monthly basis.

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Rae Barton: So we went through. We did the survey. Identified every loop point. We identified the products that went in. We identified the amounts and the frequencies.

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00:12:34.500 --> 00:12:42.520

Rae Barton: and they held themselves compliant to completing those tasks after they had completed the survey, and then they watched the data

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00:12:42.890 --> 00:12:53.320

Rae Barton: over the course of an entire year, and they were able to reduce that failure rate by about 15 times.

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00:12:53.450 --> 00:13:14.670

Rae Barton: So obviously, they, you know, they continue to have other places where they can improve their reliability. But with that one specific problem they were able to all but eliminate that and hopefully over the future. They're even able to kind of tighten it up and get it to where they have 0 bearing failures. But that's that's the main thing that we're all driving for. Obviously, there's costs associated with

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00:13:14.670 --> 00:13:27.700

Rae Barton: those types of repairs when you're swapping out components. We all know how much we can save there. But really the big savings for you as you do this is that your oe score will go up, and obviously that translates

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00:13:27.760 --> 00:13:33.249

Rae Barton: to more revenue generated. A lot of folks when they're when they're thinking about reliability.

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00:13:33.470 --> 00:13:40.230

Rae Barton: You know, they're just thinking about the reduction in labor costs or the reduction in repairs or parts

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00:13:40.340 --> 00:13:47.810

Rae Barton: that they that they manage. But it's really important to think about and and start to kind of quantify

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00:13:47.910 --> 00:14:04.899

Rae Barton: how much production. You're improving. And look at that savings as well. And you know, obviously, that's kind of a function of the operations team. But if you can, you know, get the operations team to help give you that data and work together on that. That's where the the biggest savings is at.

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00:14:05.279 --> 00:14:20.439

Rae Barton: I'll touch. I'll touch real quick on employee efficiency. There's several ways that you can improve your employee efficiency. Obviously, if you have a team of reliability technicians going around and doing rounds, whether it's vibration, whether it's thermography.

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00:14:20.520 --> 00:14:26.999

Rae Barton: lubrication, inspection, whatever it is, you can make them more efficient. And

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00:14:27.380 --> 00:14:54.675

Rae Barton: typically that comes through 2 ways. The 1st is going back to that point that I described, where they're not lost anymore. And if you've got a paper work order, or even just a a work order on a tablet, and all it describes is the the list of equipment. They need to have maps, and they need to have tools in their in their tool toolkit that allows them to get directions faster to the equipment that they've got a

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00:14:55.180 --> 00:15:00.520

Rae Barton: take care of. So so making them getting them to the equipment faster is a big piece of it.

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00:15:00.770 --> 00:15:27.190

Rae Barton: And then the other piece is really just helping them understand what to do once they get to that equipment. So again, you can. You can communicate to them before they go out in the field all the products they're going to need to go. So there's less round tripping, going back and forth to store rooms. They can look up on their app and just see exactly what it is, thanks to your survey into your loop chart. It'll specify all the

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00:15:27.810 --> 00:15:33.080

Rae Barton: all the consumables they need in order to complete their work that day, and there's a lot less walking.

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00:15:33.635 --> 00:15:51.659

Rae Barton: And then the 3rd piece I guess I mentioned there's 2, but there's 3. The 3rd is really just on the data that's passed around and reviewed as a result. So let me give you an example. We always say that in any completed work order

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00:15:51.900 --> 00:15:56.380

Rae Barton: you might save as much as 30Â min of post processing work.

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00:15:56.450 --> 00:16:02.360

Rae Barton: So if you're completing, you know, multiple work orders per day per employee.

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00:16:02.390 --> 00:16:17.580

Rae Barton: there's there's close to an hour per employee just in in post processing the data. So typically, what happens is if someone completes a work order, they might be making notes or comments about the machinery as they walk through the facility.

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00:16:17.580 --> 00:16:34.059

Rae Barton: And you can automate this so that obviously, if you switch them from paper to digital, they can take that and start capturing their comments in a digital format. But then you can automate their their feedback to the right places.

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00:16:34.090 --> 00:16:54.640

Rae Barton: and you can kind of eliminate the step of having a planner or a manager have to read through the work orders and glean. You know the defects or the comments out of it from the technician team. So that's a a huge benefit as well. When your when your employees are using this type of data to manage their their tasks.

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00:16:55.309 --> 00:17:02.259

Rae Barton: And then, obviously, the big benefit that I mentioned in the beginning, is just knowing that

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00:17:02.950 --> 00:17:13.059

Rae Barton: what you have and what you don't have a lot of a lot of customers that we talk to, and you might ask yourself, kind of introspectively like, do I know where all my components are?

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00:17:13.220 --> 00:17:18.179

Rae Barton: Do I know how my team's doing in terms of keeping those components compliant.

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00:17:18.630 --> 00:17:34.665

Rae Barton: How long would it take me to research if somebody just gave me a random equipment number. How long would it take me to look that up? Review all the components on that piece of equipment, and then see, you know, the last time that piece of equipment was lubricated, or

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00:17:35.370 --> 00:17:43.420

Rae Barton: see, or even just look up. You know what products that that takes. So having that at your fingertips is is a huge advantage.

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00:17:44.790 --> 00:17:53.789

Rae Barton: Couple of other things before we jump into the live demo and and keep things moving here, so we can kind of hit that half hour, 40Â min, timeline.

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00:17:54.242 --> 00:18:15.460

Rae Barton: Why aren't people charting? So it's interesting to me. This feels like a fundamental of lubrication. And I'm not even talking about necessarily doing. You know, an Fmea on every single component. I'm just talking about identifying each component but a and the the tasks that need to go with it. But

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00:18:15.600 --> 00:18:29.780

Rae Barton: a lot of people just don't feel comfortable doing this type of work themselves. They don't view themselves as an expert. They feel like they need a 3rd party help to do it. So that's a big reason why some teams haven't pulled the trigger yet.

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00:18:30.165 --> 00:18:53.229

Rae Barton: Another reason is that typically if you're gonna bring in a contractor to do this type of survey, it can be time consuming. And you know, contractor plus lots of time. Obviously, that that adds up to a big expense. So I've noticed throughout my career that you know, typically, it's only the larger businesses. Maybe maybe a business that has a really, you know, a really good year or some economic

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00:18:53.639 --> 00:19:02.269

Rae Barton: you know, if you're in mining, and the and the price of of minerals changes, and you've got extra capital. Then you might deploy it to this.

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00:19:02.380 --> 00:19:20.349

Rae Barton: But really, what we, what we'd like to see is kind of a shift in this mentality where you know, it's not just the the biggest, you know, 5% of businesses out there that are doing this and and kind of make it so it's a market, a stand and a standard for the entire market. So really, obviously.

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00:19:20.540 --> 00:19:37.226

Rae Barton: you know, if you don't have expertise, and it's and it's a expensive initiative. You might not have the budget for it, and it might just be too time consuming for your team to be able to get after. So so here at Red List, our our mentality is that we want to be

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00:19:37.880 --> 00:19:50.739

Rae Barton: building tools that enable your team, your everyday reliability engineers, your everyday operators and technicians enabling them with the tools to make them experts.

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00:19:50.780 --> 00:20:06.439

Rae Barton: Obviously they don't have to be an expert themselves, but coupled with the tool. We want them to feel like we want your team to feel like you're experts and to be able to complete your own chart and to get out there and get it done and start delivering impact from day one. So

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00:20:06.440 --> 00:20:22.799

Rae Barton: that's kind of the overview, the quick, simple summary of why charting matters what it is that charting actually entails and kind of read this ambition and goal. And I'm going to switch gears now a little bit and just show, you know. Maybe for the last 10 or 15Â min.

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00:20:22.860 --> 00:20:26.432

Rae Barton: Show you how some of these tasks are completed.

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00:20:26.980 --> 00:20:36.900

Rae Barton: in in building your own chart and we'll switch over to that. So give me a second to undo my share and pull up the

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00:20:37.370 --> 00:20:38.450

Rae Barton: phone.

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00:20:42.550 --> 00:20:50.950

Rae Barton: Let's see, Ray, are you still seeing my Powerpoint here. Yes, I am okay.

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00:21:04.250 --> 00:21:08.260

Rae Barton: Is it still on my Powerpoint? It's on your black screen. Okay.

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00:21:08.500 --> 00:21:22.319

Rae Barton: let me pull up before I switch over to the phone, I'll just pull up the web.

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00:21:23.000 --> 00:21:29.220

Rae Barton: Here. Are you seeing the website? Yes, we are great. For some reason the

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00:21:31.770 --> 00:21:52.550

Rae Barton: zoom is out of sync. It's showing that I haven't shared it yet. But you have. You're all good. Okay? Alright. So you're seeing my web screen. Now, one of the 1st things you want to do when you go out before you go out and do a survey is you want to set up a set of templates is what we call it, and if you're using our generic tool.

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00:21:52.880 --> 00:22:04.200

Rae Barton: it'll come pre populated with some templates. And what do I? What do I mean by a template. So if you're gonna if you're gonna walk through your facility and you're gonna identify all the components

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00:22:04.470 --> 00:22:09.350

Rae Barton: we want you to to basically simplify the data capture process

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00:22:09.420 --> 00:22:36.610

Rae Barton: that you're doing in the field. And we all we want you to have to do is identify what component you're looking at and then, based on what component you're looking at, we want to pre populate the data from the templates. So, for example, you might have a protocol for what you do on bearings. You might have a different protocol for pillow block bearings. You might have a different protocol for electric motors that are greased.

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00:22:36.989 --> 00:22:56.089

Rae Barton: You might have a protocol for gearboxes, for pumps, and this this list can be as long as you want. I'm only showing the templates that we have tasks on but you can have a huge library of component tasks if your facility merits it most. Most. You can keep this list to a fairly small list.

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Rae Barton: But let me just show you the types of data that we're capturing on a component. So so on an electric motor

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Rae Barton: we might have 2 tasks here. We might have an inspection task for recording the temperature on the motor bearings, and then we might also have a grease task.

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00:23:13.720 --> 00:23:23.100

Rae Barton: So you're gonna specify out all of the setup before you go out into the field and do this survey so that you're minimizing the time that it takes.

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00:23:23.620 --> 00:23:47.599

Rae Barton: So this is this is all the task information you can put in here. You can pre populate things like amounts. Obviously, when you get to a particular motor or bearing. You're going to need to adjust those things based on the sizes of the bearings and the bearing numbers. So I typically wouldn't put in a specific volume before I go in the field. That would be one of the last steps that I do.

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00:23:48.920 --> 00:23:56.643

Rae Barton: I will also just switch over very quickly and show if I if I can pull this up

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00:23:57.790 --> 00:24:15.789

Rae Barton: when when you're when you're filling out the information on the tool for bearing. Specifically, you can even go more specific and fill out the information about the bearing. So you might not be a lubrication engineer, but you might be a technician, and you can certainly

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00:24:15.790 --> 00:24:32.979

Rae Barton: look up information about the bearing you could put in the bearing number. You could put in measurements so you could. You could fill out all the information that's needed, including making your best guess at the operating conditions. You know the temperatures, contaminations.

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00:24:33.317 --> 00:24:56.900

Rae Barton: water, all the different things you need to make that calculation, and then the system can make that calculation for you so that you don't. You don't have to be the expert. All you have to do is look at the bearing, find the size operating conditions, and it can put that data in for you. So again, once. Once we've got the components in here, the component templates.

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00:24:57.120 --> 00:25:06.500

Rae Barton: then we're gonna switch over to the phone and walk out in the field and and accomplish our work that way. So let me switch over the phone if I can. If I can get that done.

122

00:25:08.030 --> 00:25:22.620

Rae Barton: Ray, can you push a button that helps me stop sharing, or is that yeah? So there is. When you hover over sharing. There should be a button that says, Hey, stop sharing like I said. I think these these 2 things are out of sync. But

123

00:25:24.637 --> 00:25:29.980

Rae Barton: let me just try. I did make you the host. So you can. Okay, should be able to just switch.

124

00:25:33.200 --> 00:25:42.920

Rae Barton: Okay, how do I switch that? Because it says only the host and only the need to 50 seconds

125

00:25:43.800 --> 00:25:46.190

Rae Barton: hang on one second while we get my phone up here.

126

00:25:47.620 --> 00:25:52.819

Rae Barton: I think it allowed you right there on the settings to multi participants can share.

127

00:25:53.220 --> 00:25:54.090

Rae Barton: There we go.

128

00:25:54.510 --> 00:25:56.319

Rae Barton: Let me try that

129

00:25:59.820 --> 00:26:00.960

Rae Barton: screen.

130

00:26:01.470 --> 00:26:03.369

Rae Barton: Start the broadcast.

131

00:26:05.360 --> 00:26:08.289

Rae Barton: Alright, Ray, will you confirm when you can see my screen?

132

00:26:12.640 --> 00:26:13.910

Rae Barton: Not yet.

133

00:26:20.250 --> 00:26:22.060

Rae Barton: Let's try it one more time.

134

00:26:38.440 --> 00:26:40.350

Rae Barton: Thanks for your patience.

135

00:26:42.190 --> 00:26:47.450

Rae Barton: Right? Normally, there is a stop share button that says, Hey, I'm gonna stop sharing.

136

00:26:52.280 --> 00:26:54.810

Rae Barton: Well, let's see if we can figure this out. And then.

137

00:27:05.410 --> 00:27:08.909

Rae Barton: okay, try. Let's try that now.

138

00:27:14.600 --> 00:27:16.109

Rae Barton: Alright, let me try it.

139

00:27:25.110 --> 00:27:29.990

Rae Barton: We can see you phone screen. Alright. Perfect. Thanks everybody for waiting. Sorry for that

140

00:27:30.530 --> 00:27:39.259

Rae Barton: alright. So I'm just switching over to. We were on the web page before. I'm now in the app. I've got dark mode on here. Hopefully, nobody

141

00:27:39.420 --> 00:27:47.739

Rae Barton: sends me an inappropriate text, because I'm live here. I'm gonna switch over to let's see if I can find my mouse cursor.

142

00:27:47.930 --> 00:27:50.479

Rae Barton: I'm going to switch over to my assets tool

143

00:27:51.600 --> 00:28:07.187

Rae Barton: and within the assets. Tool, you know this is very similar to what you might be familiar with in an Erp system, or the Cms, where you have your asset hierarchy. This is just a demo account. So there's lots of

144

00:28:07.720 --> 00:28:10.189

Rae Barton: data in here. But what I'm doing is

145

00:28:10.640 --> 00:28:20.309

Rae Barton: coming into. I'm now in in a specific line. And then this is a list of all of my equipment from the actual

146

00:28:22.080 --> 00:28:26.640

Rae Barton: sap, or whatever I got the integration from. So you can see at the top

147

00:28:27.540 --> 00:28:34.769

Rae Barton: many of these pieces of equipment I've already done the audit, for I've linked to QR. Codes. I'm going to scroll down to the bottom.

148

00:28:35.580 --> 00:28:41.860

Rae Barton: Sorry about that. And I'm just gonna grab a piece of equipment that I may not have done anything on this. Rs 10.

149

00:28:42.930 --> 00:28:43.920

Rae Barton: So

150

00:28:44.440 --> 00:29:09.390

Rae Barton: going back to those problems that I mentioned. We have 1st of all, just finding a piece of equipment. What can I do to make this faster for somebody to find a piece of equipment. One of the 1st things we want is like a photo and a video of the machine. So, for example, there's no photo on this thing. I could take a camera. Sorry. Take a picture with my camera right on the spot. I've got one in my library. I'll just pull this in.

151

00:29:09.560 --> 00:29:15.825

Rae Barton: I'm just adding this machine to it. And I can add as many of these as I want. I might even add,

152

00:29:16.540 --> 00:29:26.214

Rae Barton: like a a video. I think I've gotta go into the actual asset itself to do that. But let me show you how to add a video.

153

00:29:26.620 --> 00:29:49.360

Rae Barton: I like to add a walk around Video. I can't. I can't do this while I'm on showing on the call. But I like to add a walk around video of every asset, so that I can review it later as well. Make sure that you know no points were were missed, but having having a walk around video of every piece of equipment is really helpful as well. So that's that's helping someone

154

00:29:49.470 --> 00:30:08.319

Rae Barton: visualize and understand that they're at the right asset. The other piece is with a QR code or a tag. So you can see this little feature up here. It's really important. I'll try and hold this up to the camera. See if it shows. But we'll put tags this is kind of like credit card material. So it's weather resistant.

155

00:30:08.530 --> 00:30:11.880

Rae Barton: We'll tag every piece of equipment in the facility.

156

00:30:12.120 --> 00:30:33.249

Rae Barton: and why the tags are helpful is because you can kind of get away from people needing to memorize and understand asset numbering or nomenclature or naming. So this allows them. Let me just see if I'm not sure if tagging will work on the while I'm sharing. But I'm gonna link this tag to this asset.

157

00:30:33.540 --> 00:30:34.529

Rae Barton: So I'm just

158

00:30:34.850 --> 00:30:43.020

Rae Barton: touching it's got an Nfc chip in it much like the technology use at like the gas pump when you tap your phone to pay

159

00:30:43.300 --> 00:31:04.090

Rae Barton: same thing here, so you can put the tag on. Touch your phone to it. Now you can see there, this is highlighted in green. So anytime anyone in the future comes up to this asset using the app, they can use a phone or a tablet, and they can tap that on that tag, and it'll pull them right up to this piece of equipment.

160

00:31:04.530 --> 00:31:24.399

Rae Barton: The other piece again. Kind of going to keeping track of these these pieces of equipment is just dropping a GPS PIN, so this might not work for you if you have, like an indoor facility. But if your if your equipment's outdoor, if you're a refinery, or or what what have you? It can be very helpful

161

00:31:24.570 --> 00:31:36.465

Rae Barton: to set a location, obviously this is just kind of showing you right where I'm at. But I I if it's not right where I'm sitting, I can also move it around and drop it where it's actually at

162

00:31:37.510 --> 00:31:43.429

Rae Barton: that's really helpful, obviously for your guys, because once that's dropped.

163

00:31:43.590 --> 00:31:57.590

Rae Barton: then they can actually look this piece of equipment up and they can use the get directions button, so I might be standing here, and the piece of equipment might be across the street from me. I can hit that. Get directions, button, and it's immediately

164

00:31:58.050 --> 00:32:03.230

Rae Barton: gonna show me how to get over to that piece of equipment which can be very helpful.

165

00:32:03.440 --> 00:32:04.500

Rae Barton: So

166

00:32:06.760 --> 00:32:12.444

Rae Barton: And then, alright. So that's that's a little bit about finding the equipment very simply.

167

00:32:13.620 --> 00:32:29.099

Rae Barton: just to recap. We're dropping a GPS PIN. We're putting a QR and Nfc tag on there. QR. Code helps you. If you've got a camera, I prefer Nfc. Because it you know, doesn't matter what the lighting is, or if it's covered in grease, or if

168

00:32:29.280 --> 00:32:31.600

Rae Barton: the QR. Code's been scratched off.

169

00:32:32.158 --> 00:32:54.369

Rae Barton: The nice thing about the codes as well as you can put multiple on. You can have multiple codes on one machine. So happens all the time where you've got the operator side. You've got the drive side you might approach the machine from a different place for large machines. So you wanna you can have tags on both sides or each corner top bottom if you're if you're dealing with a large asset.

170

00:32:54.670 --> 00:33:21.800

Rae Barton: So that really helps us find the equipment. Again, I kind of I spent like 5Â min on this. But typically when we're walking through a facility, we're doing an audit. We're clipping through this in like a matter of seconds per piece of equipment, we snap the picture. We take the video, we we add that tag. And you, you can even turn on a setting where, when you scan a tag, it automatically does the GPS for you, so that it's not 2 separate steps.

171

00:33:21.990 --> 00:33:28.430

Rae Barton: But that's gonna really set you up with a nice foundation for finding the equipment. And that checks that 1st box, that 1st problem.

172

00:33:28.820 --> 00:33:54.640

Rae Barton: So now let me switch gears here from finding the equipment. Now to understanding the the reliability tasks

that are needed. And kind of building that out in your chart. So I'm gonna switch over from the information section on this piece of equipment over to the components, which is kind of that icon there with the 2 gears alright, so you can see here I got an empty empty empty screen blank slate.

173

00:33:54.920 --> 00:33:56.290

Rae Barton: I don't know

174

00:33:56.410 --> 00:34:25.840

Rae Barton: anything about how to keep this piece of equipment reliable. There's there's nothing that's been specified. But the nice thing is is that I can add components here, as I'm looking at this this piece of machinery. So when I click on that, this is gonna reference back to that, those components that I was showing you that we set up those templates that we set up in our in our account. So maybe I'm looking at an electric motor maybe it's got a gearbox as well.

175

00:34:25.980 --> 00:34:31.569

Rae Barton: and some bearings. So so I've got. I've got a motor. I've got a gearbox.

176

00:34:32.000 --> 00:34:44.849

Rae Barton: and I've got a set of bearings right? So I've got those 3 things. And I'm just gonna click the I I clicked the plus button here. I can add in multiple as well. So maybe there's a couple of bearings I could add in 2.

177

00:34:45.228 --> 00:35:02.959

Rae Barton: If you know, if there's multiple gearboxes or multiple motors, you can. You can go through this and add multiple. You can also come back into this screen afterwards. But now I'm gonna push these components into my loop survey. So I just click, add. And now it's put in those 2 bearings

178

00:35:03.100 --> 00:35:05.170

Rae Barton: to put in my electric motor.

179

00:35:05.370 --> 00:35:19.820

Rae Barton: and it also placed my gearbox, and then you can see it brought in all my reliability protocols for each of those component types. So it brought in a gearbox. And I understand the demo that I'm showing you hang on to grab some water.

180

00:35:22.450 --> 00:35:40.599

Rae Barton: So drink right in the camera. I understand that. You know this. This looks very generic, and it. It's that way, intentionally. You know, your product is not gonna say oil filter. It could actually have the number of the oil filter. And you know it's not gonna have.

181

00:35:41.162 --> 00:35:51.710

Rae Barton: Let's look at. For example, the electric motor, instead of saying electric motor grease, it's gonna have, like the actual name of the shell product, or the Exxon product, or the chevron product, whatever you buy.

182

00:35:52.198 --> 00:35:55.659

Rae Barton: So so that's that's the one difference that you would have

183

00:35:55.960 --> 00:36:14.210

Rae Barton: in your in your loop chart is, you would have your actual lubricants that you're buying loaded into your instance of the tool. And that's that's just done through our inventory tool. But I won't. I won't show you how to do that. It's it's a simple, just import from excel

184

00:36:14.731 --> 00:36:16.689

Rae Barton: so another step on this.

185

00:36:16.870 --> 00:36:24.973

Rae Barton: If, if, for example, these bearings are not obvious, which one is which you might want to update the

186

00:36:25.940 --> 00:36:37.650

Rae Barton: description of the bearing. So I'm just gonna tap on it here. And instead of instead of what the system automatically gave it, I might say, you know, bearing operator side.

187

00:36:38.190 --> 00:36:41.279

Rae Barton: And then or let's just yeah. Let's just leave. That's fine.

188

00:36:41.580 --> 00:36:46.930

Rae Barton: And then on this one you might go drive side

189

00:36:48.765 --> 00:37:02.229

Rae Barton: so that can help help you. Distinguish between those obviously more powerful than that is going to be a photo of that actual bearing. So I'll pull in the same. I don't think I have a photo

190

00:37:02.410 --> 00:37:09.549

Rae Barton: ready for showing this. But this will. Obviously this was the photo of the piece of equipment.

191

00:37:09.700 --> 00:37:11.530

Rae Barton: But I can pull that up.

192

00:37:11.850 --> 00:37:20.310

Rae Barton: and I can actually annotate. So if I were, if I were seeing the bearings here I could actually come in here and draw a picture

193

00:37:20.640 --> 00:37:29.769

Rae Barton: to the different places that my components are are on. So that makes it really easy for your folks to find later.

194

00:37:32.962 --> 00:37:46.689

Rae Barton: So annotating the photos, especially if you've got a complicated piece of equipment is very, very important,

so that helps them find the loop points, and then, going back to the tasks a little bit, we come back down to this electric motor

195

00:37:46.830 --> 00:38:08.959

Rae Barton: like I mentioned. I didn't like the quantity that was in there on this. So I actually have this task open in here, and I can. I can change all of the parameters on this task. So maybe this is a more, a a faster, less complicated task than the template. It's only gonna take me 2Â min.

196

00:38:09.110 --> 00:38:13.673

Rae Barton: and maybe this is a much larger bearing than

197

00:38:14.490 --> 00:38:37.419

Rae Barton: you know. Then some other bearing that I'm looking at. I I measure the diameters and the widths, and and do the calculation myself. A 1 day frequency way too frequent for an electric motor. So let's actually, you know, put that to where we think it should go. And you can again, you can fill out the information on the component that can pre populate this for you. But I'm just showing you all the

198

00:38:37.590 --> 00:38:40.240

Rae Barton: information that's available. So

199

00:38:40.766 --> 00:38:49.050

Rae Barton: I typically am going faster than and not spending as much time on these, but you could. You could also attach inspections

200

00:38:49.500 --> 00:38:59.389

Rae Barton: to the task. So what do I mean by that? For example, if you have someone there greasing the motor, you might want them to inspect and give you information about the cleanliness.

201

00:38:59.500 --> 00:39:01.449

Rae Barton: and you can in in

202

00:39:01.780 --> 00:39:13.250

Rae Barton: connect and integrate those inspections to the tool. So I I could choose here from our list of inspections that we want them to take. So maybe it's that they need to shoot the temperature

203

00:39:13.420 --> 00:39:31.179

Rae Barton: on that task. So I'm pulling that in. You can also mark whether the the task needs to shut down the equipment or not, so that you can manage your routes better later. So so that's what you're doing. As far as changing these tasks.

204

00:39:31.210 --> 00:39:52.339

Rae Barton: you again. You want your com, your templates to be as close as possible in the office before you go out in the field, so that you don't have to come into this tool, and make too many changes other than with the sizes of the bearings and the quantities and frequencies. But you want to have your product recommendations and things mostly

dialed in.

205

00:39:52.820 --> 00:39:57.179

Rae Barton: So that's a big piece of identifying

206

00:39:57.520 --> 00:40:01.569

Rae Barton: the tasks that need to be done. When somebody finds that

207

00:40:03.312 --> 00:40:07.084

Rae Barton: I do wanna switch gears and show a few of the

208

00:40:08.280 --> 00:40:17.872

Rae Barton: upcoming new features before I before I finish to do that I'll probably have to stop sharing and switch back to the

209

00:40:19.450 --> 00:40:22.369

Rae Barton: the website. So I'm gonna try that one more time.

210

00:40:23.950 --> 00:40:35.950

Rae Barton: Okay, I'll stop sharing and I'll go back over here to my screen. 3

211

00:40:39.520 --> 00:40:40.230

Rae Barton: Oh.

212

00:40:43.340 --> 00:40:57.737

Rae Barton: alright, Ray, is that showing the right screen? Yes, it is great. So this is this is kind of some fun. New integrations that we've done integrating the red list tool with some digital twins. So we can actually take a model of your

213

00:40:58.430 --> 00:41:14.410

Rae Barton: plant. And you know, there's lots of scanning technologies out there that you can utilize to do this. But then we can pinpoint where the loop points are at using all that loop data that I just talked about. We can take that survey and make it a very visual experience.

214

00:41:14.410 --> 00:41:28.889

Rae Barton: so that your guys can, you know, see where all the bearings are, and it can be very visual. And for someone who just starts in the plant, this is a really good way to help them get started and understand and and comprehend

215

00:41:28.940 --> 00:41:37.630

Rae Barton: how to walk through your plant, find the equipment again, and what to do when they get there, have all of the details at their fingertips.

216

00:41:38.010 --> 00:42:05.459

Rae Barton: Again, this this webinar is only intended to show you how to do the charting experience. We have other information in our in our tool and in our web website to help you understand how your employees can actually utilize that loop chart to, you know, complete their work. But I just wanted to give you a quick overview of how you go through and import and add those tools.

217

00:42:06.020 --> 00:42:06.835

Rae Barton: So

218

00:42:08.480 --> 00:42:16.232

Rae Barton: we're about up against time here. And, Ray, I'm gonna ask you again to see how you stop sharing the

219

00:42:19.130 --> 00:42:20.260

Rae Barton: tool. But

220

00:42:20.760 --> 00:42:29.193

Rae Barton: yeah, something about that 3rd screen on yours where it does not want to recognize your yeah, there we go. I think.

221

00:42:30.150 --> 00:42:33.030

Rae Barton: I did want to show one other thing on the

222

00:42:33.180 --> 00:42:41.772

Rae Barton: on the app. If that's okay. Sorry to go back and forth on that. Is everyone. Okay? Watching what? App Demo? Hopefully. Nobody's

223

00:42:42.870 --> 00:42:50.470

Rae Barton: no getting whiplash from me, switching screens here, but I think it. It is important just to finish this. Finish this up.

224

00:42:50.930 --> 00:42:55.350

Rae Barton: So let me know. Once you're seeing my screen.

225

00:42:56.250 --> 00:42:59.410

Rae Barton: we are seeing it. That was a little faster than last time.

226

00:42:59.650 --> 00:43:08.660

Rae Barton: Okay, so one thing that's important on this. Most people have a lot of repetitive equipment at their facilities.

227

00:43:08.820 --> 00:43:27.030

Rae Barton: So I showed you how to build this one component at a time using a template. But once you've built out an entire asset or piece of equipment that comp might be composed of many pieces of equipment. Sorry, many components. Let me give you an example. I was I was at a cereal plant recently.

228

00:43:27.641 --> 00:43:29.949

Rae Barton: I'm also a packaging plant.

229

00:43:30.130 --> 00:43:34.700

Rae Barton: Both of those facilities have assets that

230

00:43:34.960 --> 00:43:39.180

Rae Barton: contain more than a hundred loop points within one asset.

231

00:43:39.460 --> 00:43:55.309

Rae Barton: So to go. And and additionally, they have multiple pieces of equipment of the same make and model. So you might have like a row of 15 of the same thing. You got 15 machines. Each machine has a hundred 2 loop points on it.

232

00:43:56.530 --> 00:44:07.970

Rae Barton: you really don't want to have to go through like pieces of equipment and do the same thing and reinvent the wheel. So let me show you kind of switching gears over to asset templates what that looks like.

233

00:44:08.290 --> 00:44:15.120

Rae Barton: So once you've gone through the 1st piece of equipment you've dialed in the recommendations. All the loop points

234

00:44:15.280 --> 00:44:25.479

Rae Barton: you might want to save that as an asset template. So if I were looking at this, I can come up here to the top, and I can just say, you know what I'm gonna save this as an asset template.

235

00:44:25.670 --> 00:44:27.560

Rae Barton: and this allows you to name it.

236

00:44:28.144 --> 00:44:30.989

Rae Barton: I'm I'm gonna restrain from from

237

00:44:31.220 --> 00:44:48.039

Rae Barton: actually going through the full process because I didn't do a good job on this asset, and I don't want the demo the data later, but but you'd name it by make and model, and then you could save or get rid of the the images some people like to have unique images per machine

238

00:44:48.310 --> 00:44:53.799

Rae Barton: it would bring in. So you can bring in the components and images, or just the components and tasks.

239

00:44:55.460 --> 00:45:03.729

Rae Barton: once you've saved that, then it's available for you to use on the next machine. So let me just show you how

to do that real quick.

240

00:45:04.010 --> 00:45:11.959

Rae Barton: So let's go in. Let's let's pretend that I had been walking around, maybe with a counterpart of mine, and we both actually charted a role stand.

241

00:45:12.090 --> 00:45:23.982

Rae Barton: Maybe he did a role stand at 1 1 part of the plant. I did another one, and we come together, and we realize, oh, we we both did like pieces of equipment, and I actually liked his his

242

00:45:24.610 --> 00:45:44.210

Rae Barton: chart better than mine. I I realized that he found a few extra blue points that I didn't, so I could actually adopt his template and get rid of what I what I had put in here. So I'm gonna apply this template. That's what I clicked. And then I've got a list of all my my asset templates instead of component templates.

243

00:45:44.360 --> 00:46:02.799

Rae Barton: And so I've got one here for a role stand. He had 7 loop points on there. I only had 3. So that's why I'm adopting his. And then it's gonna ask me, do I want to keep everything that I had and add his template to mine? Or do I want to get rid of my own stuff and and bring in his. So I'm gonna get rid of what I had

244

00:46:03.200 --> 00:46:06.839

Rae Barton: and bring in a clean version of his template.

245

00:46:08.740 --> 00:46:18.339

Rae Barton: So now that switches over the whole step, and you can see I've got some better pictures in here. It's brought in what that other person did on that

246

00:46:19.210 --> 00:46:37.960

Rae Barton: on their loop chart, and it allows me to go much, much faster. So this is how you can get extremely efficient, especially, you know, if you're at a facility where you've got hundreds or even thousands, of pump skids, blowers when you have like pieces of equipment conveyors, you save those as templates, and you'll start cooking pretty fast.

247

00:46:38.070 --> 00:46:50.449

Rae Barton: So I'm about out of time. I'm gonna shift gears to QA. And start to wrap up. So everybody gets back to their day. Thanks for letting me show you that. Of course, we actually do have a couple of questions. Okay.

248

00:46:52.458 --> 00:47:00.999

Rae Barton: so Mike is asking, is there an attribute for asset failure, count or downtime record

249

00:47:01.220 --> 00:47:05.370

Rae Barton: downtime event. Count is required to define reliability. 250

00:47:05.480 --> 00:47:21.694

Rae Barton: Yeah, for sure. So we have. We have some data capture forms that allow you to. You could take the forms that we have for recording downtime events in kind of the way that we do it.

251

00:47:22.200 --> 00:47:34.229

Rae Barton: everybody has a slight tweak to it. So we can also our our data. Capture. Tool is customizable without code. So you can actually use your own form and kind of

252

00:47:34.230 --> 00:47:53.230

Rae Barton: build your own digital capture and start to capture all the information about downtime events, and that doesn't just apply to downtime events. You could do it for anything it could be for near misses, or you could do it for, you know, root cause failure analysis. But you can use this tool to do all those types of inspections? So that's a great question.

253

00:47:53.980 --> 00:48:08.130

Rae Barton: Is there an Rca app application that can record if failure due to lubrication? Then 5 wide. Answer the remedy for failure. Yeah, I'm not sure if I have one in this demo, let me check real quick.

254

00:48:08.500 --> 00:48:12.490

Rae Barton: but that going back to that same same point that I made.

255

00:48:14.440 --> 00:48:16.240

Rae Barton: Let's see if I can find

256

00:48:18.260 --> 00:48:41.540

Rae Barton: it'll probably take me too long. I'll just answer with words. Yeah. So, going back to that custom, custom, form capture. If you already have an Rca process. A failure analysis process that you want to follow, you can build that out in our tool. If you want to adjust our out of the box stuff, you can do that as well. And then the nice thing is we have what we call like a workflow automation afterwards.

257

00:48:42.020 --> 00:48:45.800

Rae Barton: So let's say, somebody feels fills out the Rca.

258

00:48:46.360 --> 00:48:48.860

Rae Barton: The failure analysis form.

259

00:48:48.910 --> 00:49:05.529

Rae Barton: You can have the outputs of that form create a new workflow. Just like the question was, you can have kind of a 5 wise investigation afterwards. So you could have. You could have an investigator that fills out the form, and then it could create a new task or a new

260

00:49:05.861 --> 00:49:30.368

Rae Barton: workflow that a different person needed to take and run with and complete those 5 those 5 questions. It could also involve the whole team, like each step, could be done by a different person. So that's a great question. Happy

to you know. Take that offline, and do you know, I'll I'll ray. Let's take a note to send the link. I think we've got a recorded demo of how that works.

261

00:49:31.140 --> 00:49:44.110

Rae Barton: And then is there an Api integration to loop sample report from certified labs, eg. Last 3 loop sample reports for asset. Yeah, that's a great question as well. So we're integrated with most labs.

262

00:49:44.680 --> 00:49:47.549

Rae Barton: I'm not sure how quickly I can

263

00:49:48.330 --> 00:50:05.750

Rae Barton: switch over and show this. But we have what we call an integration hub, we understand that integration is very important to our customers, especially for oil analysis. So I'm gonna see if I can share. Really quick. Are you seeing my screen right on the integration hub.

264

00:50:06.140 --> 00:50:27.559

Rae Barton: we've got a lot of them that are out of the box. Oil analysis labs. If there's any that you use that we don't have, it's very easy for us to connect our Api to theirs if they don't have an Api, some, we do have a few instances where folks are using maybe a lab that doesn't have a traditional Api, we can actually ingest an email and turn it into some of the

265

00:50:27.935 --> 00:50:52.134

Rae Barton: actionable insights and the reports that we generate from the oil analysis. But we definitely want, your team to be able to switch some of the tasks that you do on a like a time based frequency and turn those to more condition based. That's why we have the integrations we we integrate to both oil analysis and IoT suppliers so that you can start to

266

00:50:52.740 --> 00:51:02.750

Rae Barton: extend the life of, or extend the frequency of the tasks that you do and require less less. You know lubricants consumed, and and all the advantages from doing that.

267

00:51:03.590 --> 00:51:28.559

Rae Barton: So, thanks for those questions. We'll distribute the video and the Powerpoint. And then Ray will also send some links out to those of you who had those specific questions. I know I'm kind of just speaking to it, really quickly, but but I believe we could send you kind of a video that walks you through how we do that process. So, thanks for attending thanks for your questions. We appreciate. All of you have a great rest of your day.