

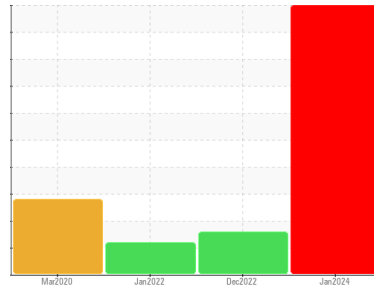
OIL ANALYSIS REPORT

Area
PLANT
Machine Id
00449

Component
Hydraulic System
Fluid

AW HYDRAULIC OIL ISO 32 (--- QTS)

Sample Rating Trend



DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

The iron level is severe.

Contamination

There is a high amount of particulates present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

The oil viscosity is higher than normal. Confirm oil type.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0090543	WC0661525	WC0542170
Sample Date	Client Info	21 Jan 2024	01 Dec 2022	31 Jan 2022
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		SEVERE	ABNORMAL	ABNORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >20	189	19	24
Chromium	ppm ASTM D5185m >10	1	<1	<1
Nickel	ppm ASTM D5185m >10	2	0	<1
Titanium	ppm ASTM D5185m	<1	0	<1
Silver	ppm ASTM D5185m	0	0	0
Aluminum	ppm ASTM D5185m >10	25	0	<1
Lead	ppm ASTM D5185m >10	1	0	<1
Copper	ppm ASTM D5185m >75	6	<1	2
Tin	ppm ASTM D5185m >10	<1	0	<1
Antimony	ppm ASTM D5185m	---	---	0
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 5	13	0	2
Barium	ppm ASTM D5185m 5	0	<1	0
Molybdenum	ppm ASTM D5185m 5	<1	<1	<1
Manganese	ppm ASTM D5185m	2	0	<1
Magnesium	ppm ASTM D5185m 25	4	3	<1
Calcium	ppm ASTM D5185m 200	17	81	159
Phosphorus	ppm ASTM D5185m 300	234	321	337
Zinc	ppm ASTM D5185m 370	19	421	435
Sulfur	ppm ASTM D5185m 2500	8589	836	1069

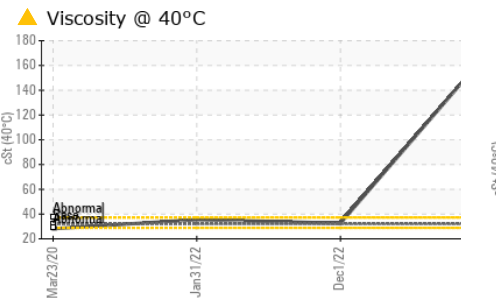
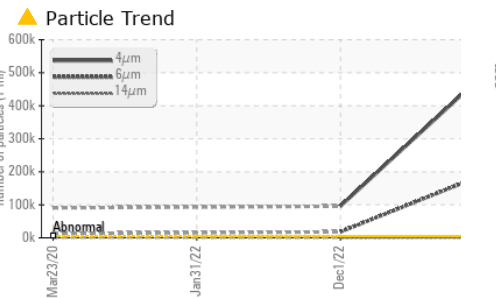
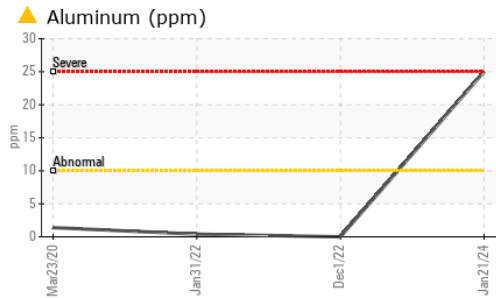
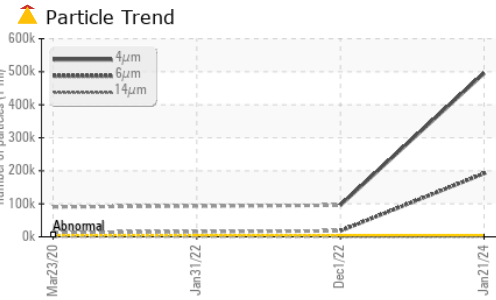
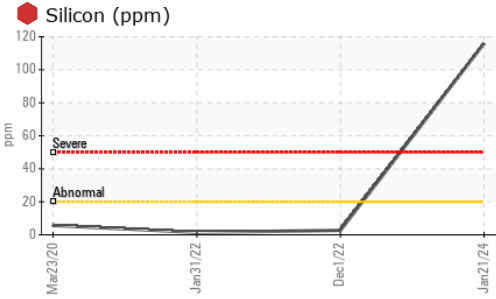
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	116	3	2
Sodium	ppm ASTM D5185m	9	0	1
Potassium	ppm ASTM D5185m >20	14	1	<1

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	495209	95586	---
Particles >6µm	ASTM D7647 >1300	191993	18010	---
Particles >14µm	ASTM D7647 >160	839	288	---
Particles >21µm	ASTM D7647 >40	162	39	---
Particles >38µm	ASTM D7647 >10	9	1	---
Particles >71µm	ASTM D7647 >3	0	0	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	26/25/17	24/21/15	---

OIL ANALYSIS REPORT

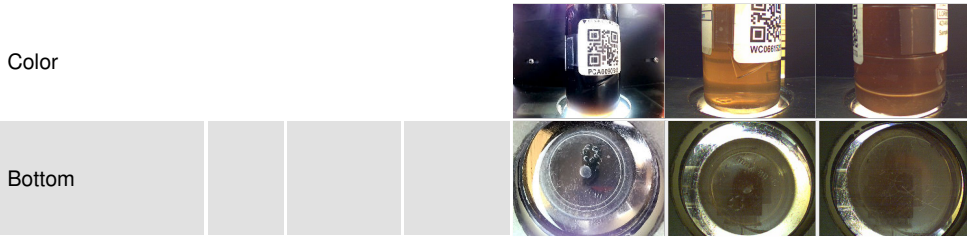


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.48	0.39	0.42

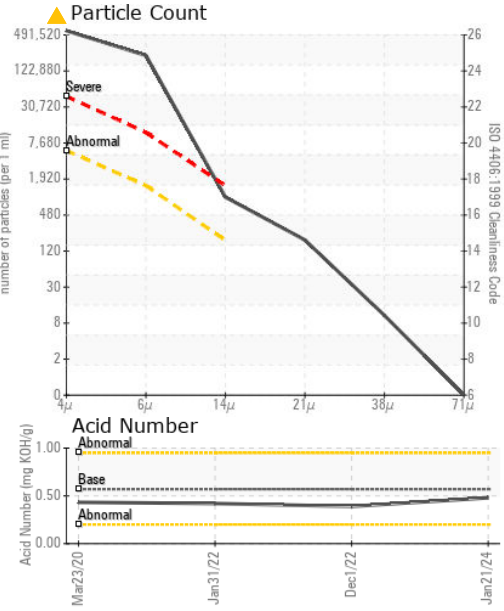
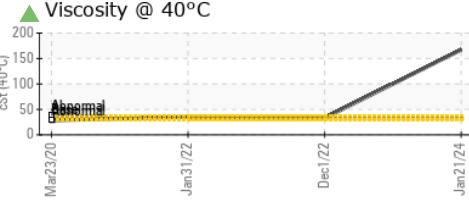
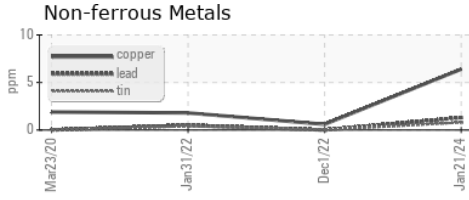
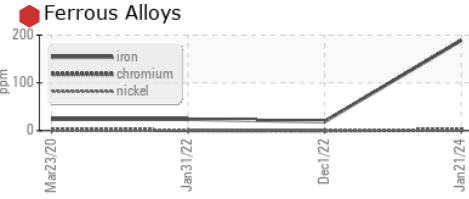
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	▲ 167	32.6	35.5

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0090543
Lab Number : **06067634**
Unique Number : 10844311
Test Package : MOB 2

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Certificate L2367
 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)