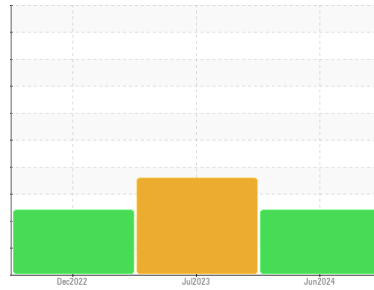


OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
FRONT LOAD
Machine Id
FEL187674
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 32 (--- GAL)

DIAGNOSIS

▲ Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0122598	PCA0090807	PCA0078053
Sample Date	Client Info	06 Jun 2024	31 Jul 2023	27 Dec 2022
Machine Age	hrs	10502	10502	8422
Oil Age	hrs	10502	9643	8422
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		SEVERE	SEVERE	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 >50	13	16	14
Chromium	ppm ASTM D5185m >10	6	6	3
Nickel	ppm ASTM D5185m >4	0	0	0
Titanium	ppm ASTM D5185m	0	0	<1
Silver	ppm ASTM D5185m	0	0	0
Aluminum	ppm ASTM D5185m >5	0	<1	<1
Lead	ppm ASTM D5185m >4	0	<1	0
Copper	ppm ASTM D5185m >15	4	2	4
Tin	ppm ASTM D5185m >4	0	<1	<1
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 5	0	<1	3
Barium	ppm ASTM D5185m 5	0	0	0
Molybdenum	ppm ASTM D5185m 5	<1	1	2
Manganese	ppm ASTM D5185m	0	0	<1
Magnesium	ppm ASTM D5185m 25	5	13	7
Calcium	ppm ASTM D5185m 200	101	114	120
Phosphorus	ppm ASTM D5185m 300	355	347	367
Zinc	ppm ASTM D5185m 370	468	440	453
Sulfur	ppm ASTM D5185m 2500	1152	1180	1231

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >15	1	1	2
Sodium	ppm ASTM D5185m	4	3	4
Potassium	ppm ASTM D5185m >20	<1	<1	11

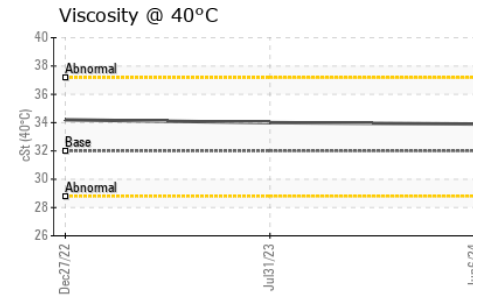
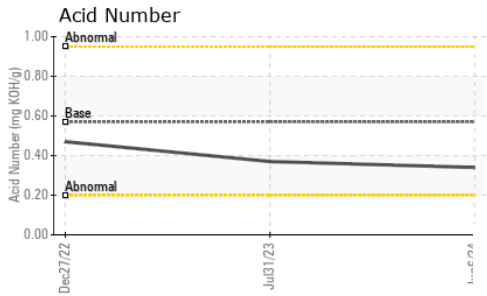
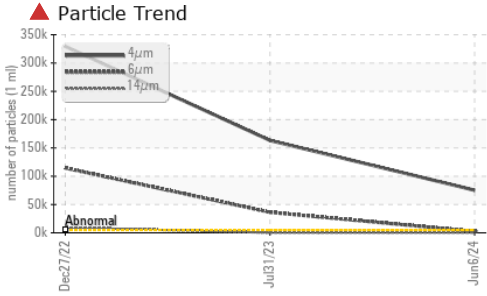
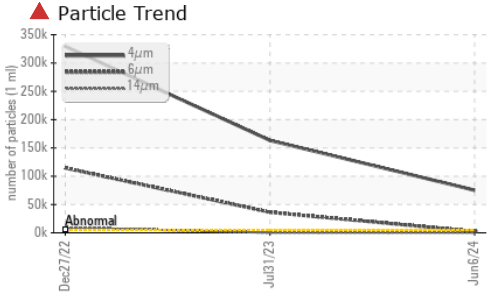
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 75205	▲ 163266	▲ 329378
Particles >6µm	ASTM D7647 >1300	● 2452	▲ 36221	▲ 114482
Particles >14µm	ASTM D7647 >160	● 181	117	▲ 9381
Particles >21µm	ASTM D7647 >40	33	34	▲ 2527
Particles >38µm	ASTM D7647 >10	2	2	▲ 66
Particles >71µm	ASTM D7647 >3	0	0	1
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 23/18/15	▲ 25/22/14	▲ 26/24/20

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.57	0.34	0.37	0.47

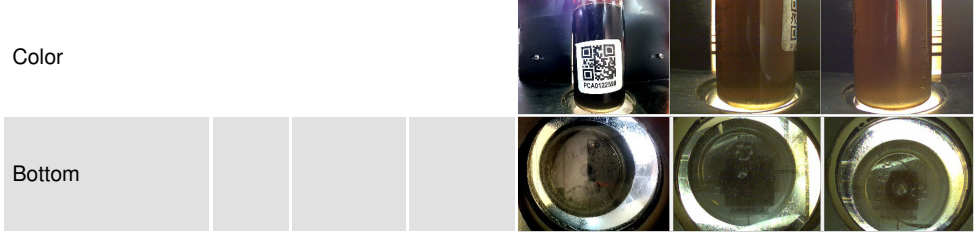
OIL ANALYSIS REPORT



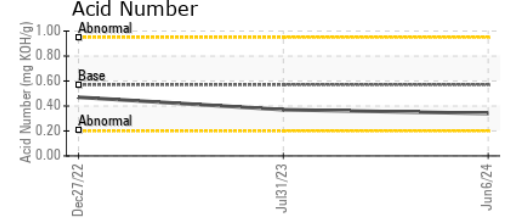
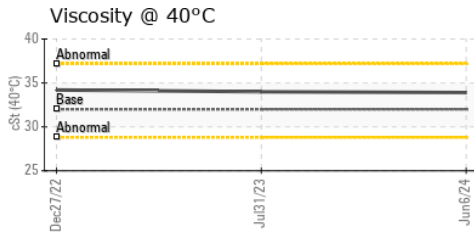
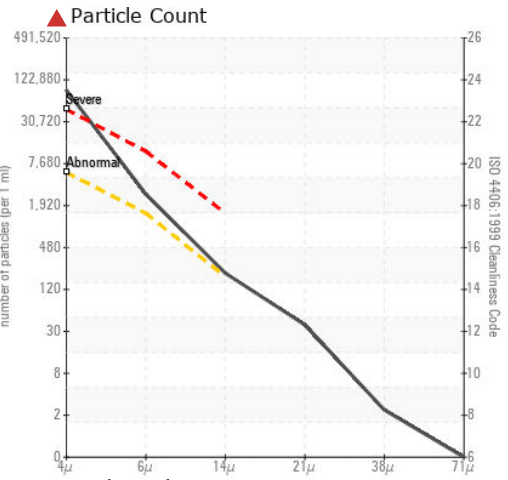
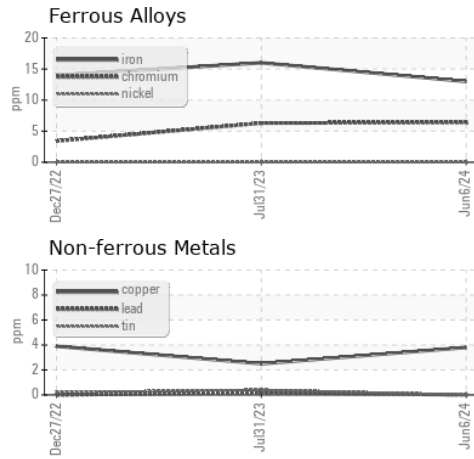
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 32	33.9	34.0	34.2

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0122598
Lab Number : 06210065
Unique Number : 11082929
Test Package : MOB 2

Received : 14 Jun 2024
Tested : 17 Jun 2024
Diagnosed : 17 Jun 2024 - Wes Davis

UMM - Shop 401 - Norton
 186 South Washington Street
 Norton, MA
 US 02766
 Contact: P Cohen
 pcohen@win-waste.com

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)