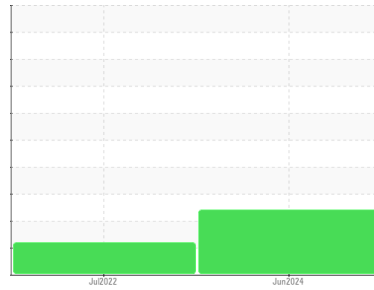


OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
Front Load
 Machine Id
FEL191362
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 32 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Appearance is hazy. There is a moderate concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0122746	PCA0078092	---
Sample Date	Client Info			24 Jun 2024	28 Jul 2022	---
Machine Age	hrs	Client Info		12111	8348	---
Oil Age	hrs	Client Info		12111	0	---
Oil Changed	Client Info			Changed	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	7	---
Chromium	ppm	ASTM D5185m	>10	0	<1	---
Nickel	ppm	ASTM D5185m	>4	0	1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>5	0	2	---
Lead	ppm	ASTM D5185m	>4	0	<1	---
Copper	ppm	ASTM D5185m	>15	0	1	---
Tin	ppm	ASTM D5185m	>4	0	1	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

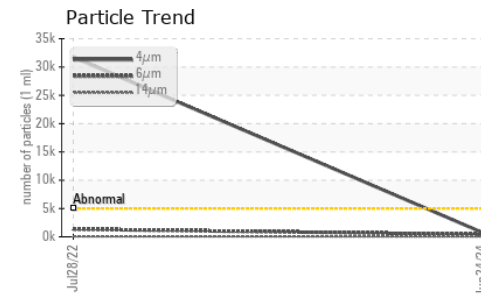
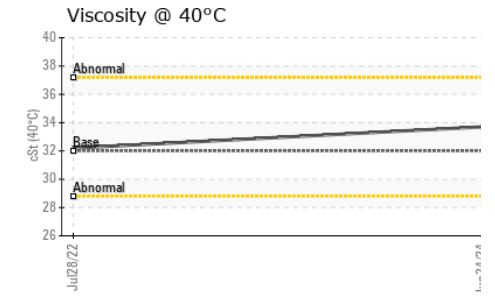
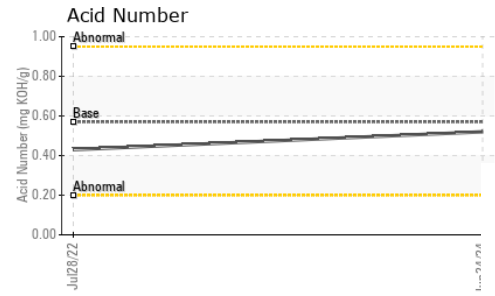
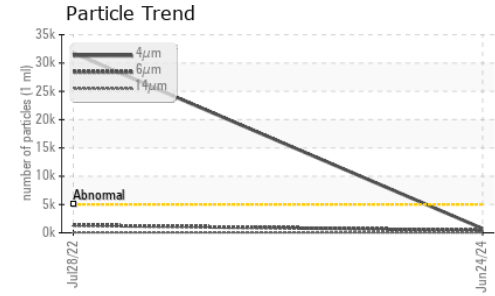
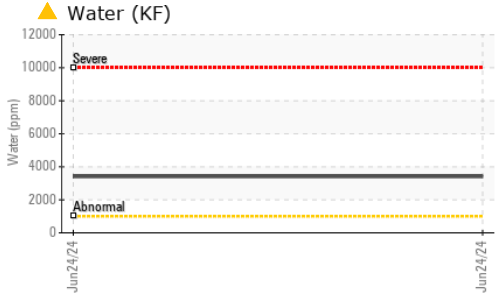
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	3	---
Barium	ppm	ASTM D5185m	5	0	0	---
Molybdenum	ppm	ASTM D5185m	5	0	<1	---
Manganese	ppm	ASTM D5185m		<1	0	---
Magnesium	ppm	ASTM D5185m	25	2	5	---
Calcium	ppm	ASTM D5185m	200	55	58	---
Phosphorus	ppm	ASTM D5185m	300	344	339	---
Zinc	ppm	ASTM D5185m	370	447	401	---
Sulfur	ppm	ASTM D5185m	2500	1466	1046	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	---
Sodium	ppm	ASTM D5185m		2	6	---
Potassium	ppm	ASTM D5185m	>20	<1	0	---
Water	%	ASTM D6304	>0.1	▲ 0.341	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 3410	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	739	▲ 31751	---
Particles >6µm		ASTM D7647	>1300	403	● 1346	---
Particles >14µm		ASTM D7647	>160	69	82	---
Particles >21µm		ASTM D7647	>40	23	28	---
Particles >38µm		ASTM D7647	>10	4	2	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/16/13	▲ 22/18/14	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.52	0.43	---

OIL ANALYSIS REPORT



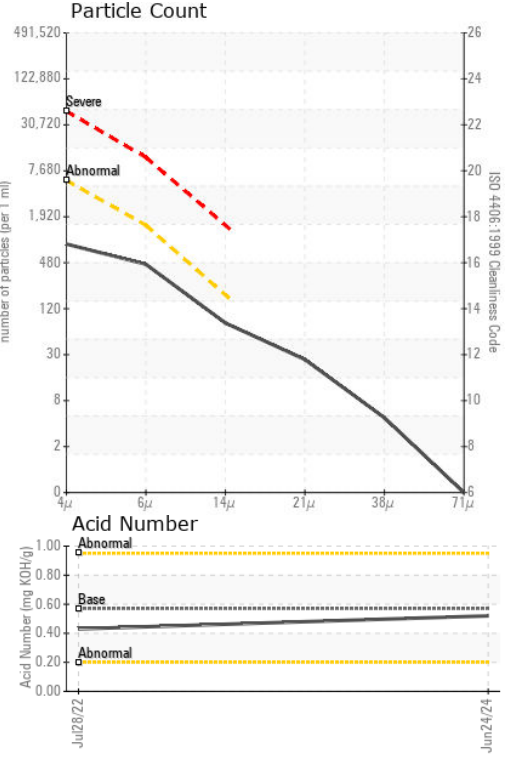
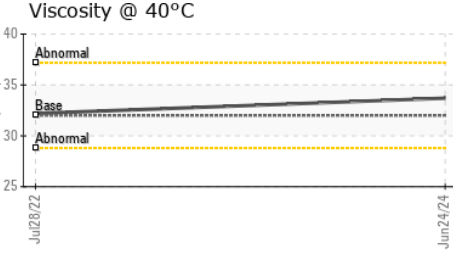
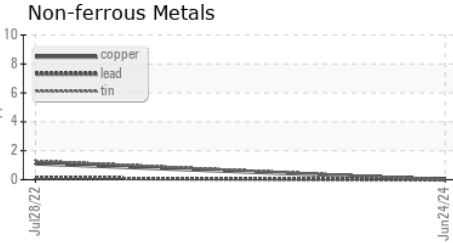
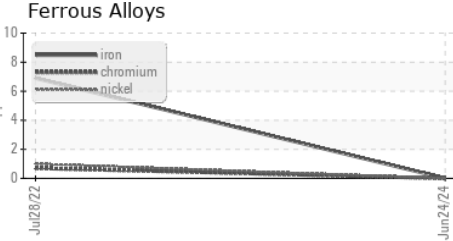
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	33.7	32.2

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0122746 **Received** : 05 Jul 2024
Lab Number : 06228483 **Tested** : 10 Jul 2024
Unique Number : 11111976 **Diagnosed** : 10 Jul 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: KF)

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)