



OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
22BM175
 Component
Hydraulic System
 Fluid
ESSO AW32 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The water content is negligible.

Fluid Condition

Viscosity of sample indicates oil is within ISO 46 range, advise investigate. 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	WC0653371	---	---
Sample Date	Client Info	11 Dec 2023	---	---
Machine Age	hrs Client Info	135	---	---
Oil Age	hrs Client Info	135	---	---
Oil Changed	Client Info	Not Chngd	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>20	4	---	---
Chromium ppm ASTM D5185(m)	>20	0	---	---
Nickel ppm ASTM D5185(m)	>20	<1	---	---
Titanium ppm ASTM D5185(m)		0	---	---
Silver ppm ASTM D5185(m)		<1	---	---
Aluminum ppm ASTM D5185(m)	>20	<1	---	---
Lead ppm ASTM D5185(m)	>20	<1	---	---
Copper ppm ASTM D5185(m)	>20	4	---	---
Tin ppm ASTM D5185(m)	>20	0	---	---
Antimony ppm ASTM D5185(m)		0	---	---
Vanadium ppm ASTM D5185(m)		0	---	---
Beryllium ppm ASTM D5185(m)		0	---	---
Cadmium ppm ASTM D5185(m)		0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)		10	---	---
Barium ppm ASTM D5185(m)		<1	---	---
Molybdenum ppm ASTM D5185(m)		7	---	---
Manganese ppm ASTM D5185(m)		0	---	---
Magnesium ppm ASTM D5185(m)		57	---	---
Calcium ppm ASTM D5185(m)		183	---	---
Phosphorus ppm ASTM D5185(m)		586	---	---
Zinc ppm ASTM D5185(m)		748	---	---
Sulfur ppm ASTM D5185(m)		1551	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

CONTAMINANTS

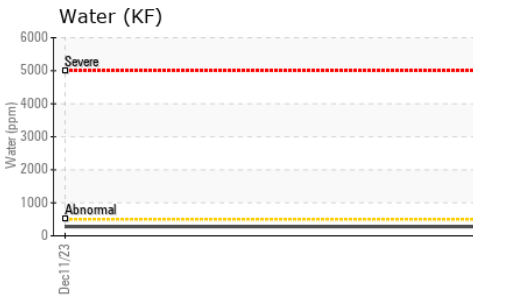
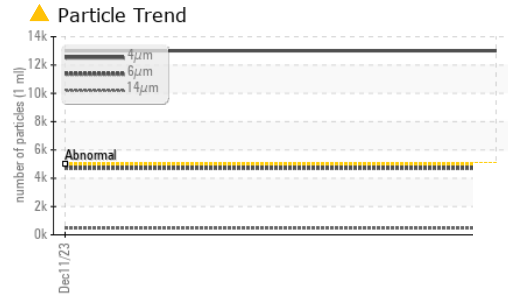
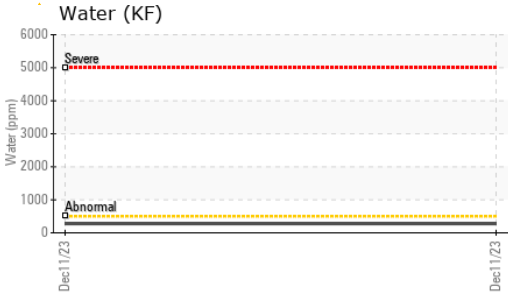
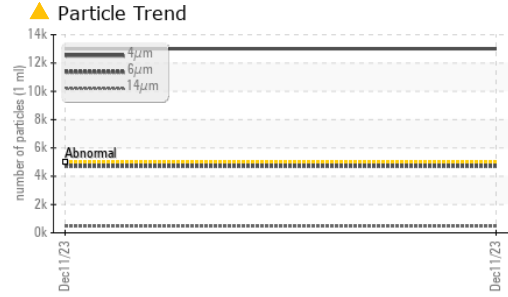
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>15	<1	---	---
Sodium ppm ASTM D5185(m)		1	---	---
Potassium ppm ASTM D5185(m)	>20	0	---	---
Water % ASTM D6304*	>0.05	0.027	---	---
ppm Water ppm ASTM D6304*	>500	279	---	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	▲ 13010	---	---
Particles >6µm ASTM D7647	>1300	▲ 4716	---	---
Particles >14µm ASTM D7647	>160	▲ 459	---	---
Particles >21µm ASTM D7647	>40	▲ 95	---	---
Particles >38µm ASTM D7647	>10	3	---	---
Particles >71µm ASTM D7647	>3	0	---	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	▲ 21/19/16	---	---



OIL ANALYSIS REPORT



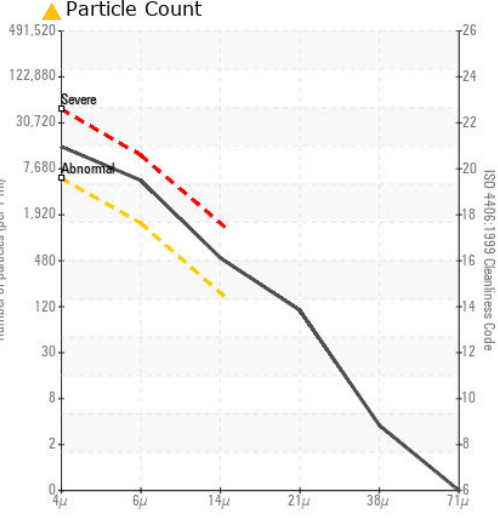
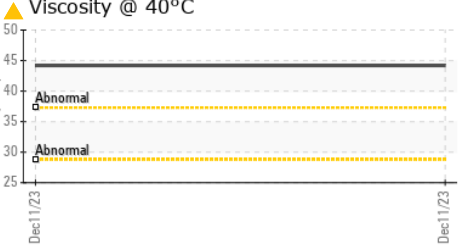
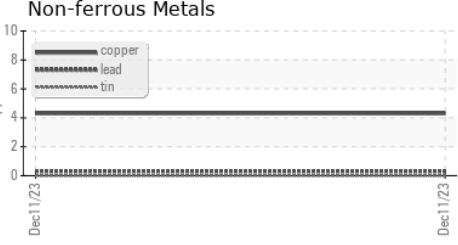
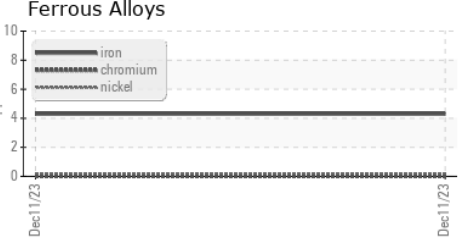
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.05	.5%	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	▲ 44.2	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color		no image	no image
Bottom		no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0653371 **Received** : 13 Dec 2023
Lab Number : 02602913 **Diagnosed** : 15 Dec 2023
Unique Number : 5695998 **Diagnostician** : Kevin Marson
Test Package : MOB 2 (Additional Tests: KF)

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.