MOB II

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
T001090 (S/N 11-M-03-1412)
Component
Gearbox
Fluid
GEAR OIL SAE 75W90 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend either performing an oil change or oil filtration. We cannot recommend specific action as we have limited information with regards to reservoir capacity and/or lubricant type. 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 an early resample to monitor this condition.

WEAR

Iron ppm levels are severe. PQ levels are abnormal. Aluminum ppm levels are noted. Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

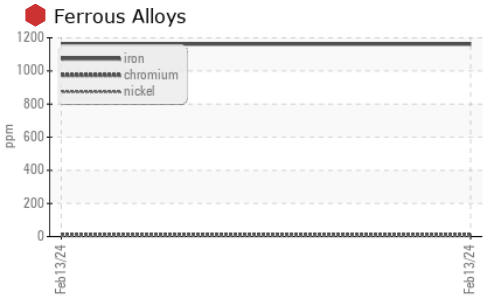
CONTAMINATION

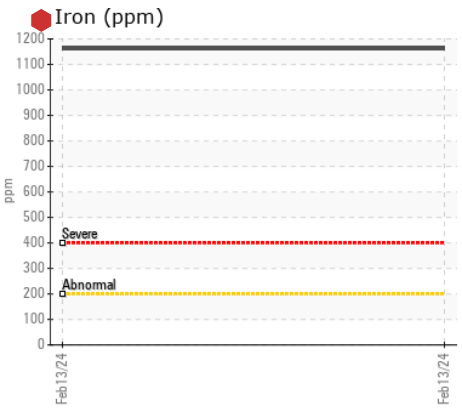
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The water content is negligible. High amount of ingressed dirt has caused abrasive wear to the component.

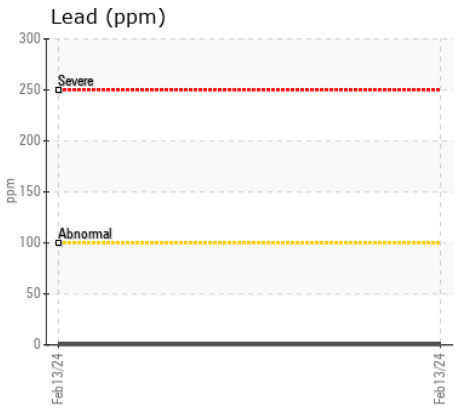
FLUID CONDITION

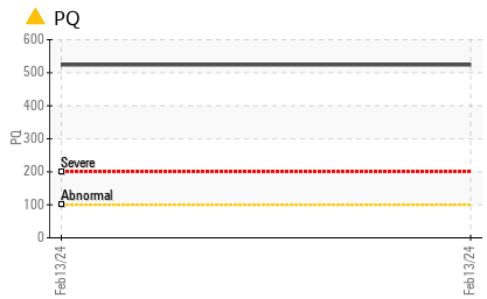
The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

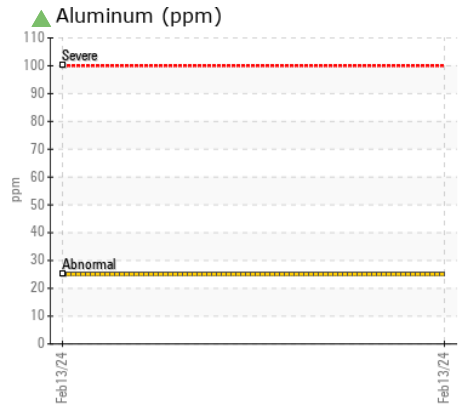
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0832187	---	---
Sample Date		Client Info		13 Feb 2024	---	---
Machine Age	hrs	Client Info		8124	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---
PQ		ASTM D8184*		▲ 524	---	---
Iron	ppm	ASTM D5185(m)	>200	⬢ 1162	---	---
Chromium	ppm	ASTM D5185(m)	>15	9	---	---
Nickel	ppm	ASTM D5185(m)	>15	3	---	---
Titanium	ppm	ASTM D5185(m)		<1	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	▲ 25	---	---
Lead	ppm	ASTM D5185(m)	>100	<1	---	---
Copper	ppm	ASTM D5185(m)	>200	7	---	---
Tin	ppm	ASTM D5185(m)	>25	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Silicon	ppm	ASTM D5185(m)	>50	▲ 95	---	---
Potassium	ppm	ASTM D5185(m)	>20	11	---	---
Water	%	ASTM D6304*	>0.2	0.150	---	---
ppm Water	ppm	ASTM D6304*	>2000	1504	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	.5%	---	---
Sodium	ppm	ASTM D5185(m)		8	---	---
Boron	ppm	ASTM D5185(m)	400	57	---	---
Barium	ppm	ASTM D5185(m)	200	0	---	---
Molybdenum	ppm	ASTM D5185(m)	12	1	---	---
Manganese	ppm	ASTM D5185(m)		11	---	---
Magnesium	ppm	ASTM D5185(m)	12	8	---	---
Calcium	ppm	ASTM D5185(m)	150	45	---	---
Phosphorus	ppm	ASTM D5185(m)	1650	1047	---	---
Zinc	ppm	ASTM D5185(m)	125	65	---	---
Sulfur	ppm	ASTM D5185(m)	22500	21073	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	2.00	2.80	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	109	103	---	---

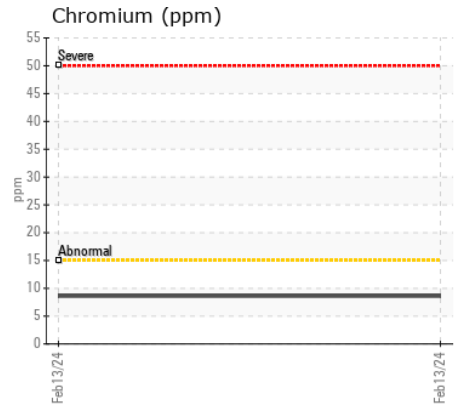


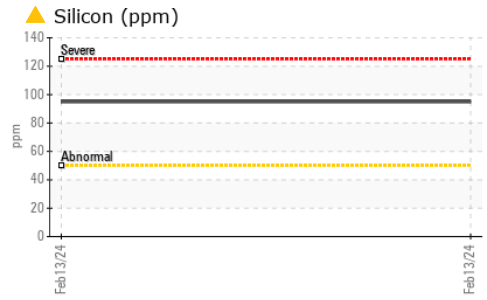


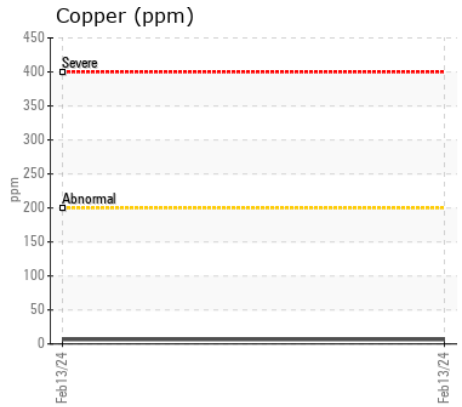


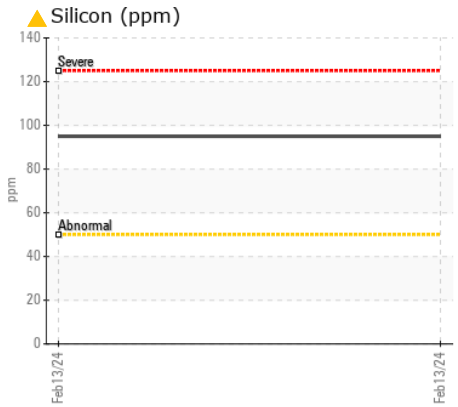


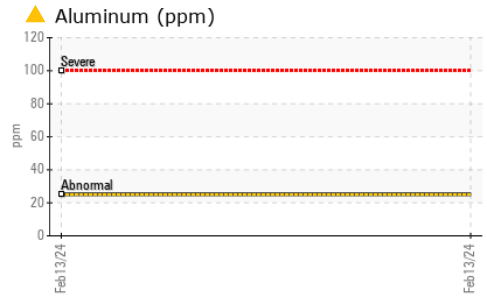


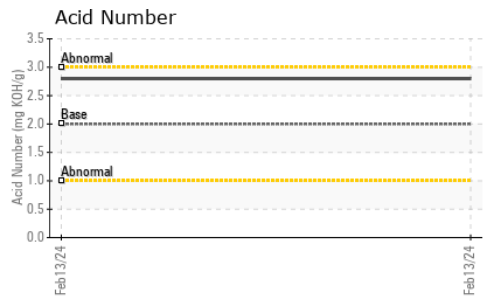


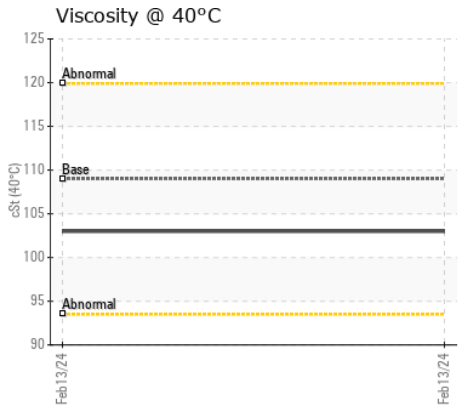


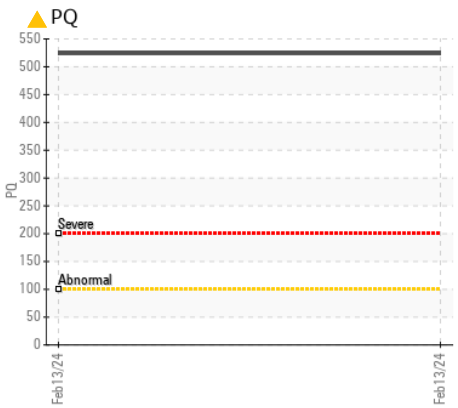












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0832187 **Received** : 15 Feb 2024
Lab Number : 02616073 **Tested** : 20 Feb 2024
Unique Number : 5733183 **Diagnosed** : 20 Feb 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: KF, PQ, TAN Man)

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.

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