



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

SEVERE
SEVERE
SEVERE

Area
MARGARET CARIDI
Machine Id
24-020S1-1
Component
2 Differential
Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Please note that the oil was too thick to perform some of the normal laboratory tests.

WEAR

Bearing and/or gear wear is indicated.

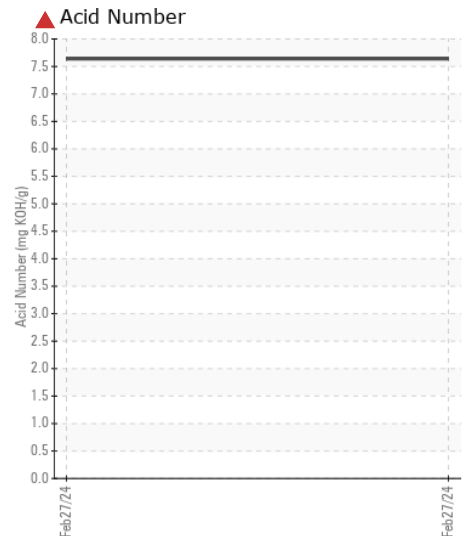
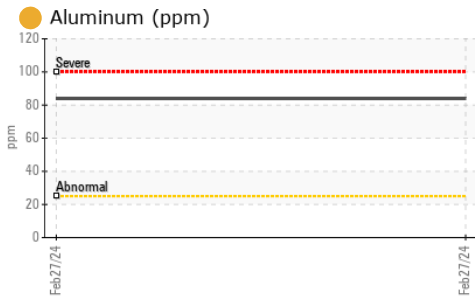
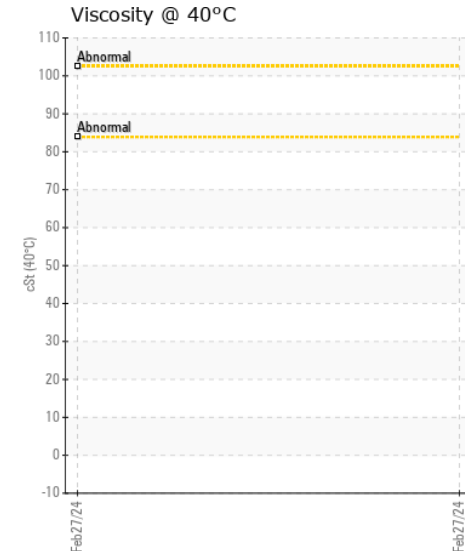
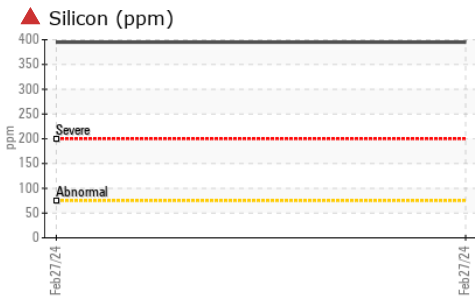
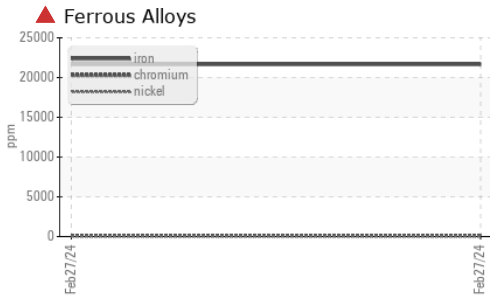
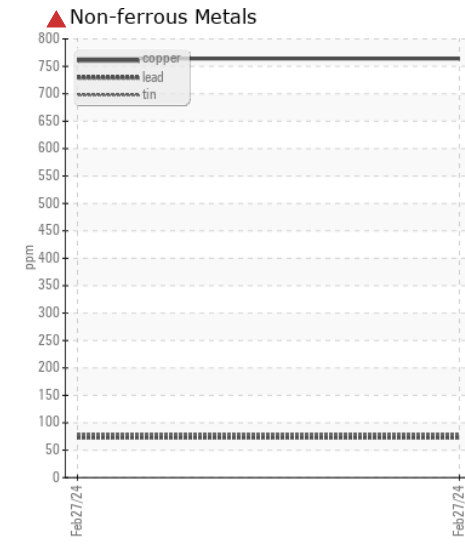
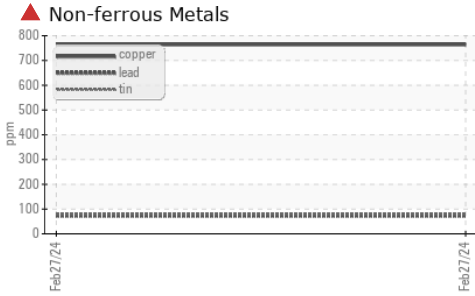
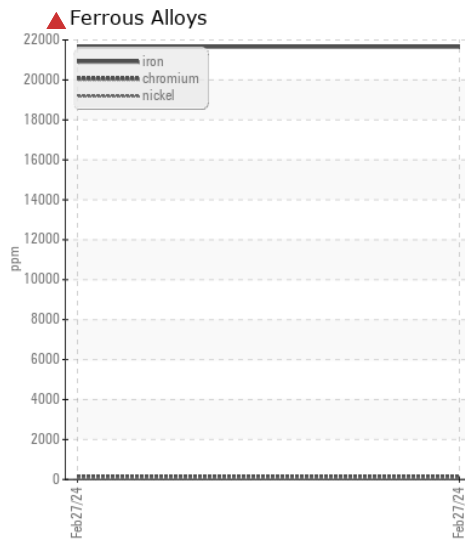
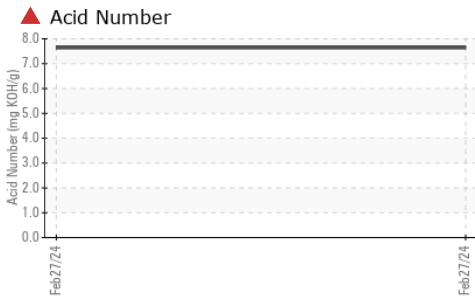
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

The AN level is above the recommended limit. The oil is highly oxidized and beyond the limit of serviceability.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0881598	---	---
Sample Date		Client Info		27 Feb 2024	---	---
Machine Age	hrs	Client Info		0	---	---
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	---	---
Iron	ppm	ASTM D5185m	>500	▲ 21656	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 120	---	---
Nickel	ppm	ASTM D5185m	>10	▲ 44	---	---
Titanium	ppm	ASTM D5185m		10	---	---
Silver	ppm	ASTM D5185m		<1	---	---
Aluminum	ppm	ASTM D5185m	>25	● 84	---	---
Lead	ppm	ASTM D5185m	>25	▲ 73	---	---
Copper	ppm	ASTM D5185m	>100	▲ 764	---	---
Tin	ppm	ASTM D5185m	>10	▲ 78	---	---
Vanadium	ppm	ASTM D5185m		2	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>75	▲ 395	---	---
Potassium	ppm	ASTM D5185m	>20	10	---	---
Water	%	ASTM D6304	>.2	NEG	---	---
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	>.2	▲ 0.2%	---	---
Sodium	ppm	ASTM D5185m		35	---	---
Boron	ppm	ASTM D5185m		32	---	---
Barium	ppm	ASTM D5185m		17	---	---
Molybdenum	ppm	ASTM D5185m		7	---	---
Manganese	ppm	ASTM D5185m		205	---	---
Magnesium	ppm	ASTM D5185m		40	---	---
Calcium	ppm	ASTM D5185m		43	---	---
Phosphorus	ppm	ASTM D5185m		248	---	---
Zinc	ppm	ASTM D5185m		65	---	---
Sulfur	ppm	ASTM D5185m		5790	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ 7.64	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0881598 **Received** : 28 Feb 2024
Lab Number : 06102952 **Tested** : 05 Mar 2024
Unique Number : 10901182 **Diagnosed** : 05 Mar 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount)

BASF - TARRYTOWN
 500 WHITE PLAINS RD
 TARRYTOWN, NY
 US 10591

Contact: MARGARET CARIDI
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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)

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