



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
Contracting
Machine Id
1DW310EXJNF716118 5111
Component
Center Differential
Fluid
MOBIL MOBILFLUID 424 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0808939	---	---
Sample Date		Client Info		18 May 2023	---	---
Machine Age	hrs	Client Info		772	---	---
Oil Age	hrs	Client Info		103	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Chngd	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

The copper level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	332	---	---
Chromium	ppm	ASTM D5185m	>10	3	---	---
Nickel	ppm	ASTM D5185m	>10	8	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		2	---	---
Aluminum	ppm	ASTM D5185m	>25	5	---	---
Lead	ppm	ASTM D5185m	>25	7	---	---
Copper	ppm	ASTM D5185m	>100	▲ 154	---	---
Tin	ppm	ASTM D5185m	>10	8	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

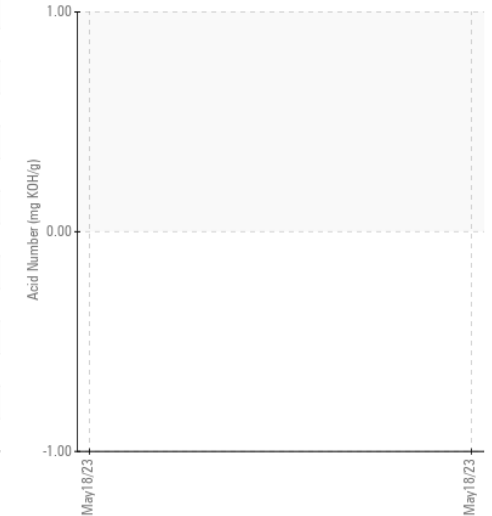
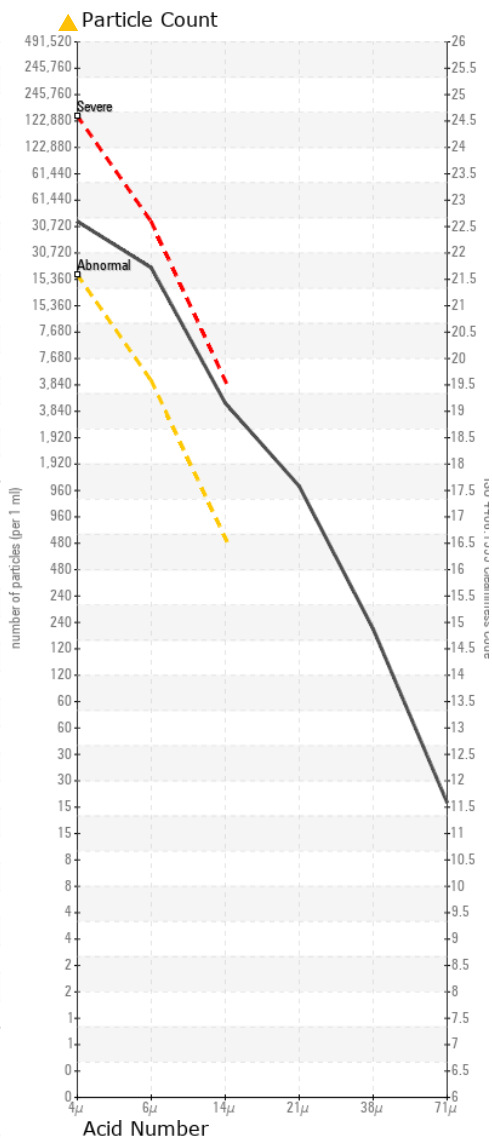
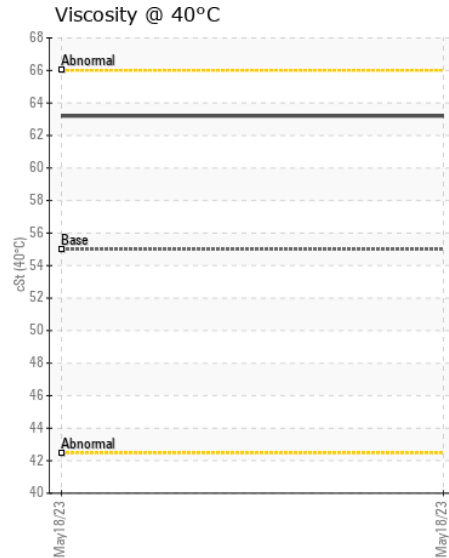
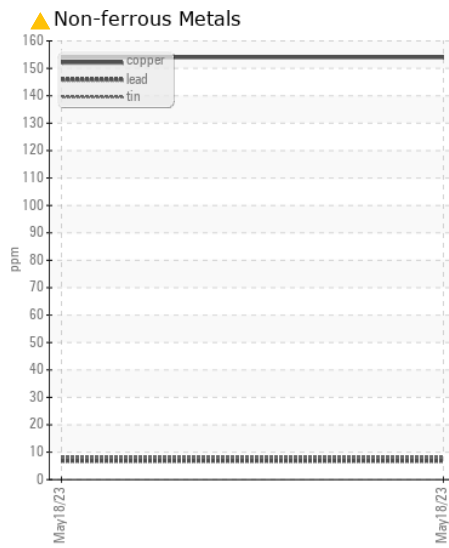
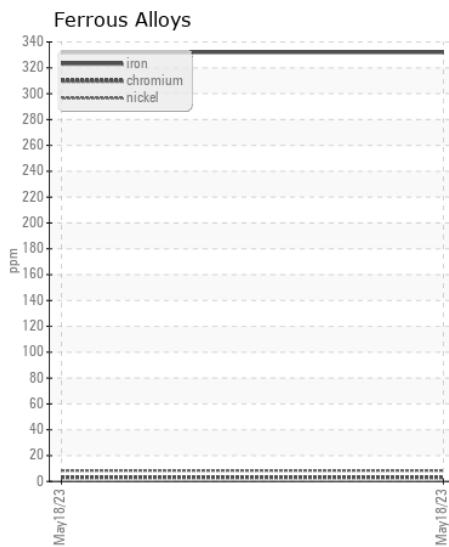
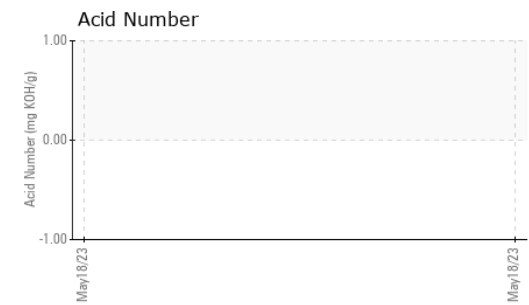
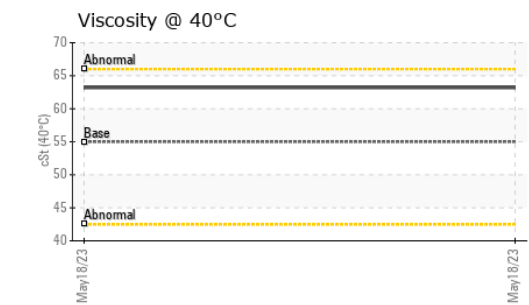
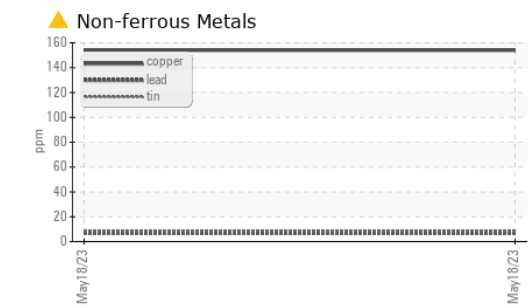
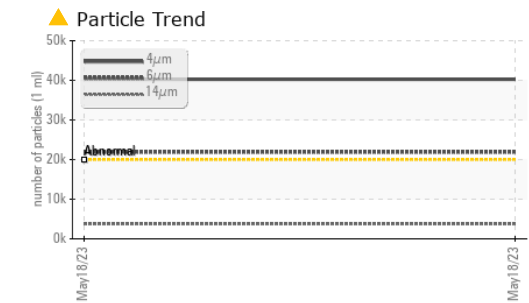
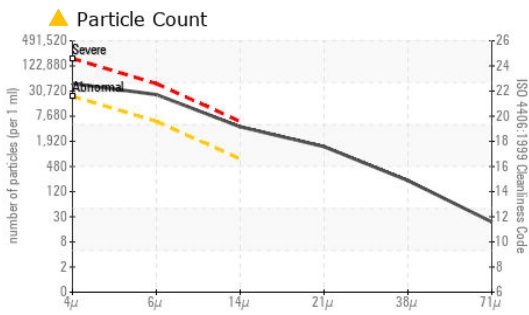
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>75	19	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water		WC Method	>.2	NEG	---	---
Particles >4µm		ASTM D7647	>20000	▲ 40245	---	---
Particles >6µm		ASTM D7647	>5000	▲ 21924	---	---
Particles >14µm		ASTM D7647	>640	▲ 3731	---	---
Particles >21µm		ASTM D7647	>160	▲ 1257	---	---
Particles >38µm		ASTM D7647	>40	▲ 194	---	---
Particles >71µm		ASTM D7647	>10	▲ 20	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 23/22/19	---	---
Silt	scalar	*Visual	NONE	MODER	---	---
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	NEG	---	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		25	---	---
Boron	ppm	ASTM D5185m		103	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		56	---	---
Magnesium	ppm	ASTM D5185m		24	---	---
Calcium	ppm	ASTM D5185m		3823	---	---
Phosphorus	ppm	ASTM D5185m		1253	---	---
Zinc	ppm	ASTM D5185m		1592	---	---
Sulfur	ppm	ASTM D5185m		3979	---	---
Visc @ 40°C	cSt	ASTM D445	55	63.2	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0808939 **Received** : 22 May 2023
Lab Number : 05853039 **Diagnosed** : 24 May 2023
Unique Number : 10482394 **Diagnostician** : Jonathan Hester
Test Package : CONST (Additional Tests: PrtCount)

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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