



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area

Mobile Fleet

Machine Id

339 339

Component

Right Inner Final Drive

Fluid

MOBIL DELVAC 1 SYNTHETIC GEAR SAE 75W90 (3 GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0939232	WC0630598	WC0434070
Sample Date		Client Info		24 May 2024	10 Nov 2021	03 Feb 2020
Machine Age	hrs	Client Info		10366	9451	8269
Oil Age	hrs	Client Info		928	2286	1104
Filter Age	hrs	Client Info		928	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	N/A	Not Changed
Sample Status				ABNORMAL	SEVERE	ABNORMAL

WEAR

The iron level has decreased, but is still abnormal. Gear wear is indicated.

Iron	ppm	ASTM D5185m	>750	▲ 944	▲ 3401	330
Chromium	ppm	ASTM D5185m	>9	2	3	2
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>40	8	● 27	● 17
Lead	ppm	ASTM D5185m	>15	0	2	<1
Copper	ppm	ASTM D5185m	>40	1	3	1
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

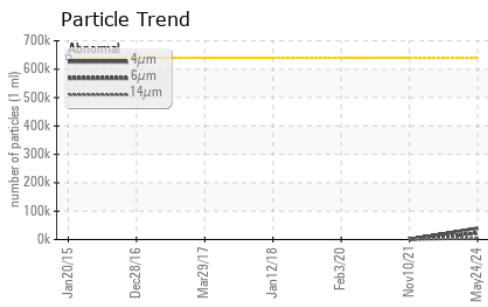
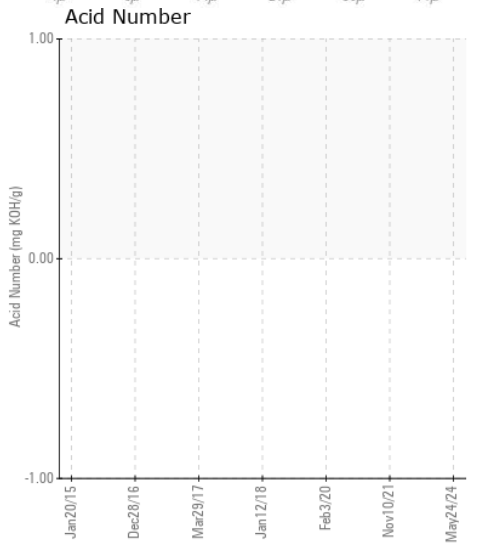
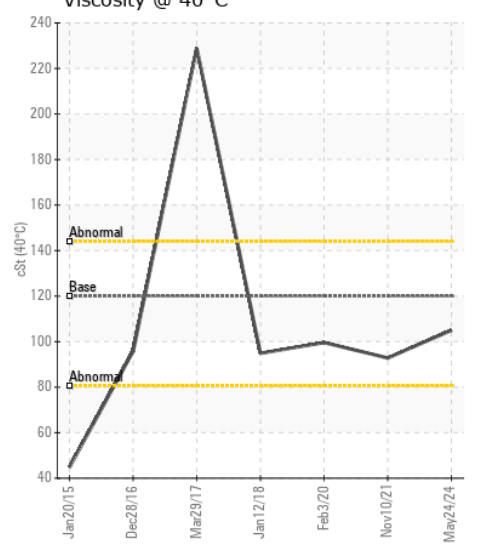
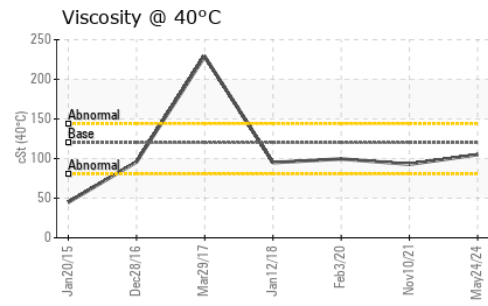
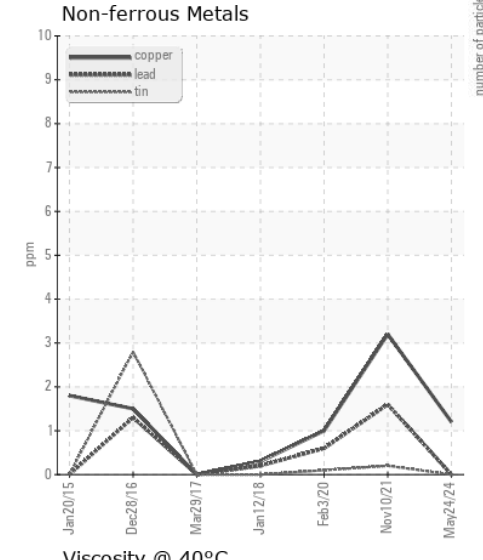
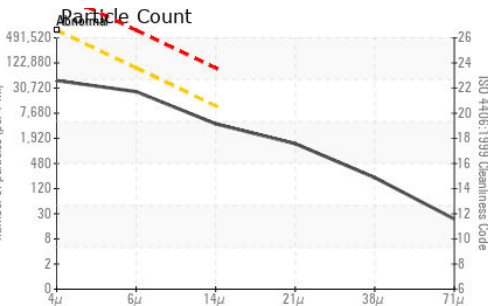
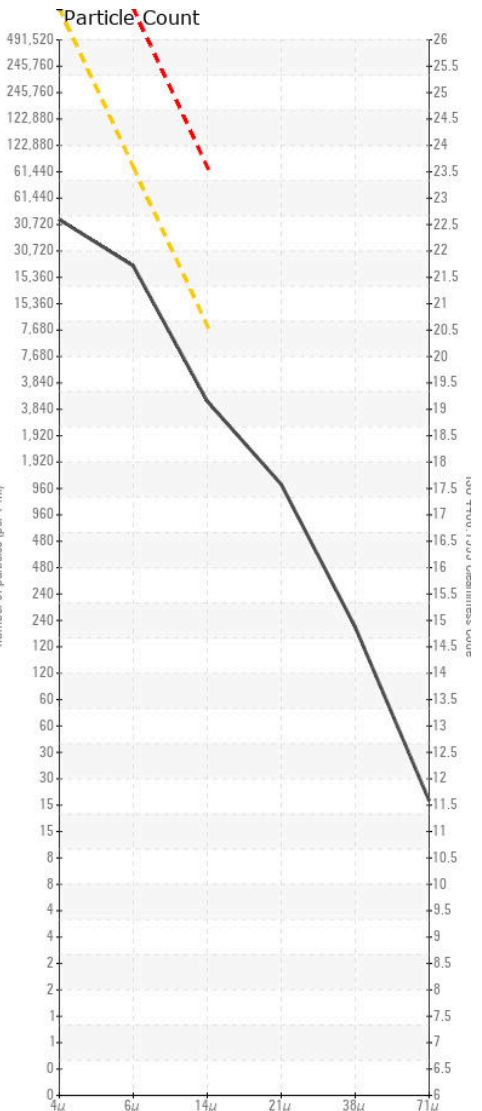
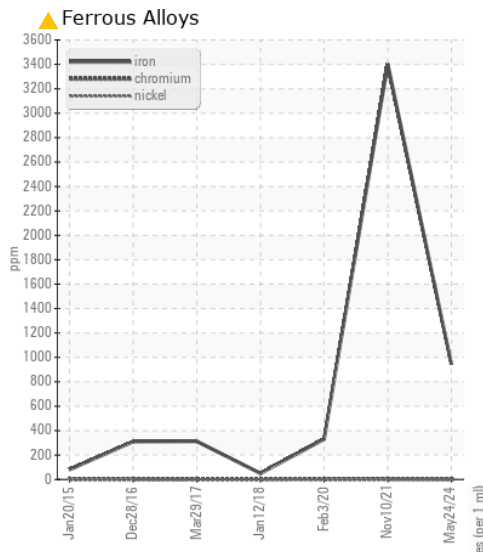
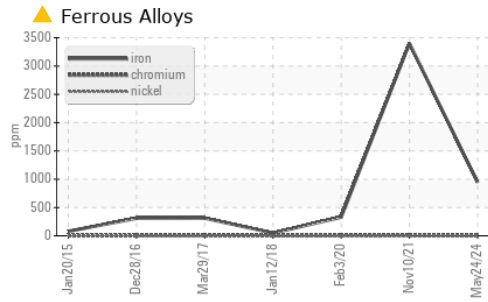
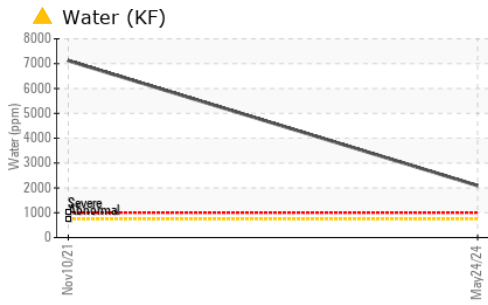
There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>75	40	▲ 272	▲ 77
Potassium	ppm	ASTM D5185m	>20	<1	<1	2
Water	%	ASTM D6304	>0.075	▲ 0.209	▲ 0.712	---
ppm Water	ppm	ASTM D6304	>750	▲ 2090	▲ 7120	---
Particles >4µm		ASTM D7647	>64000	40166	183	---
Particles >6µm		ASTM D7647	>80000	21881	100	---
Particles >14µm		ASTM D7647	>10000	3724	17	---
Particles >21µm		ASTM D7647	>2500	1254	6	---
Particles >38µm		ASTM D7647	>640	194	1	---
Particles >71µm		ASTM D7647	>160	20	0	---
Oil Cleanliness		ISO 4406 (c)	>26/23/20	23/22/19	15/14/11	---
Silt	scalar	*Visual	NONE	MODER	NONE	▲ HEAVY
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	0.2%	▲ 0.2%	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	2	16	4
Boron	ppm	ASTM D5185m		273	268	332
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		3	6	2
Manganese	ppm	ASTM D5185m		8	27	4
Magnesium	ppm	ASTM D5185m		18	33	15
Calcium	ppm	ASTM D5185m		57	104	89
Phosphorus	ppm	ASTM D5185m		1525	1245	1336
Zinc	ppm	ASTM D5185m		47	59	35
Sulfur	ppm	ASTM D5185m		30078	25056	21222
Visc @ 40°C	cSt	ASTM D445	120	105	92.8	99.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0939232 **Received** : 29 May 2024
Lab Number : 06193848 **Tested** : 01 Jun 2024
Unique Number : 11055971 **Diagnosed** : 01 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, PrtCount)

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Certificate L2367
 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)