



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Mobile Fleet

Machine Id

6415 6415

Component

Front Differential

Fluid

MOBIL DELVAC 1 SYNTHETIC GEAR SAE 75W90 (9 GAL)

RECOMMENDATION

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		WC0861918	WC0726423	WC0585625
Sample Date		Client Info		03 Jan 2024	02 Aug 2022	24 May 2021
Machine Age	hrs	Client Info		15029	12817	10958
Oil Age	hrs	Client Info		2222	4138	2279
Filter Age	hrs	Client Info		2222	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

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

Iron	ppm	ASTM D5185m	>500	62	83	54
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
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	>25	<1	3	4
Lead	ppm	ASTM D5185m	>25	3	<1	<1
Copper	ppm	ASTM D5185m	>100	▲ 292	▲ 306	88
Tin	ppm	ASTM D5185m	>10	2	4	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

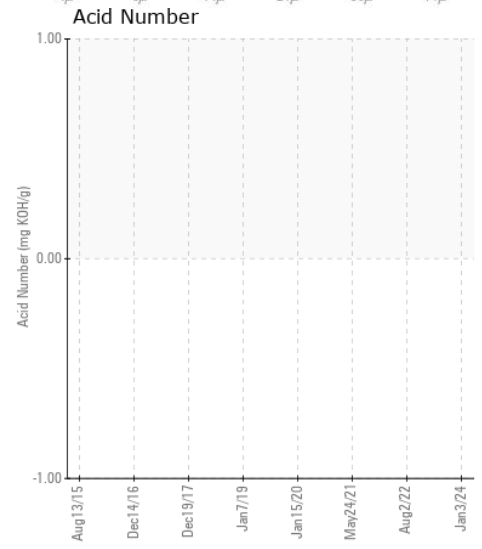
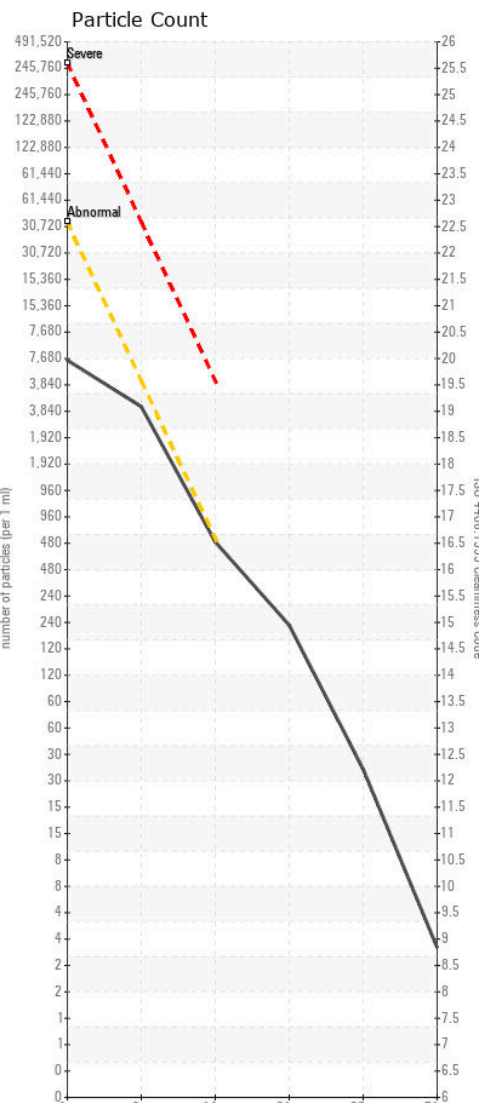
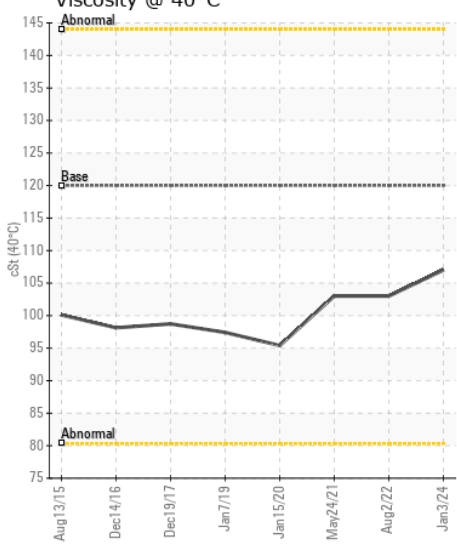
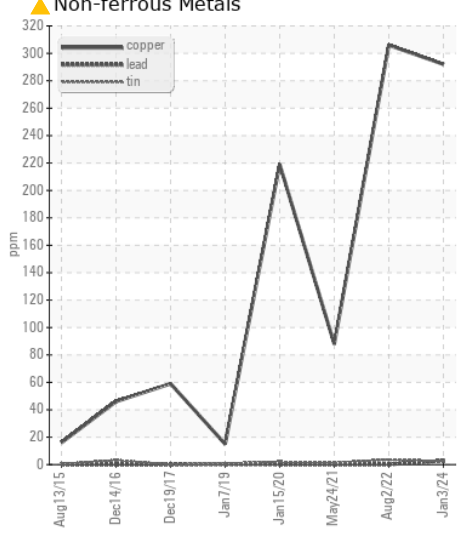
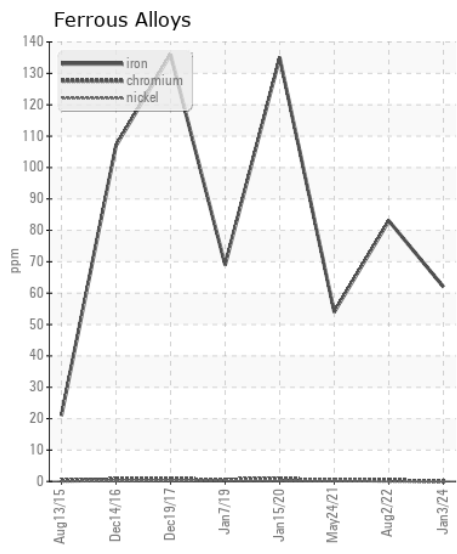
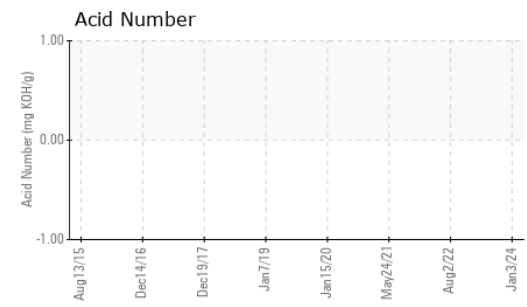
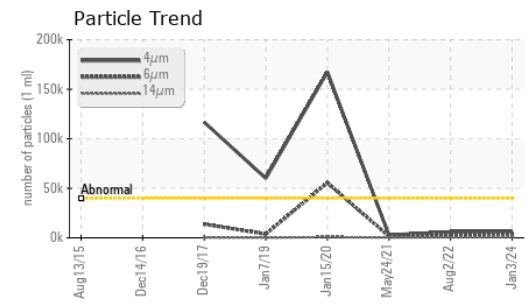
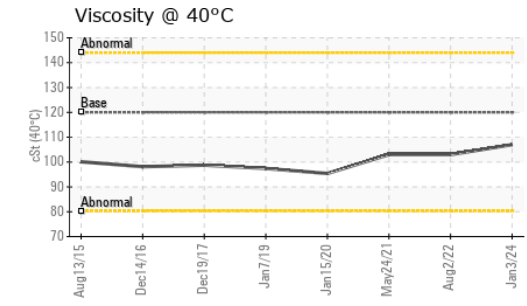
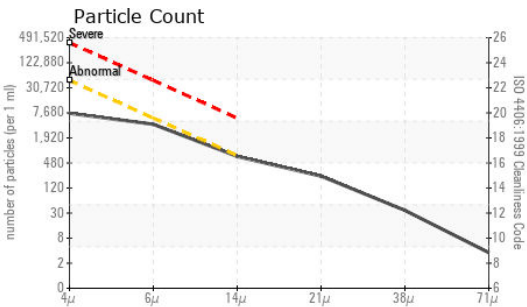
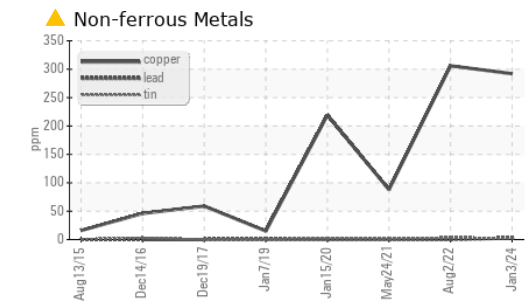
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>75	58	43	27
Potassium	ppm	ASTM D5185m	>20	<1	1	<1
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>40000	6533	6106	2799
Particles >6µm		ASTM D7647	>5000	3559	3326	1525
Particles >14µm		ASTM D7647	>640	606	566	260
Particles >21µm		ASTM D7647	>160	204	191	87
Particles >38µm		ASTM D7647	>40	31	29	13
Particles >71µm		ASTM D7647	>10	3	3	1
Oil Cleanliness		ISO 4406 (c)	>22/19/16	20/19/16	20/19/16	19/18/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		1	<1	2
Boron	ppm	ASTM D5185m		41	293	340
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		0	<1	1
Manganese	ppm	ASTM D5185m		1	3	2
Magnesium	ppm	ASTM D5185m		8	14	15
Calcium	ppm	ASTM D5185m		92	43	42
Phosphorus	ppm	ASTM D5185m		787	1314	1377
Zinc	ppm	ASTM D5185m		34	41	31
Sulfur	ppm	ASTM D5185m		19179	24400	21265
Visc @ 40°C	cSt	ASTM D445	120	107	103	103



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0861918 **Received** : 09 Jan 2024
Lab Number : 06055832 **Diagnosed** : 11 Jan 2024
Unique Number : 10821781 **Diagnostician** : Don Baldridge
Test Package : CONST (Additional Tests: 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)