



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area

Mobile Fleet

Machine Id

6448 6448

Component

Rear Differential

Fluid

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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0861786	WC0757070	WC0613067
Sample Date		Client Info		17 Jan 2024	05 Dec 2022	11 Aug 2021
Machine Age	hrs	Client Info		6549	4510	2191
Oil Age	hrs	Client Info		3268	2319	1081
Filter Age	hrs	Client Info		3268	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	169	119	91
Chromium	ppm	ASTM D5185m	>10	1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	8	<1
Aluminum	ppm	ASTM D5185m	>25	10	5	<1
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m	>100	3	1	2
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

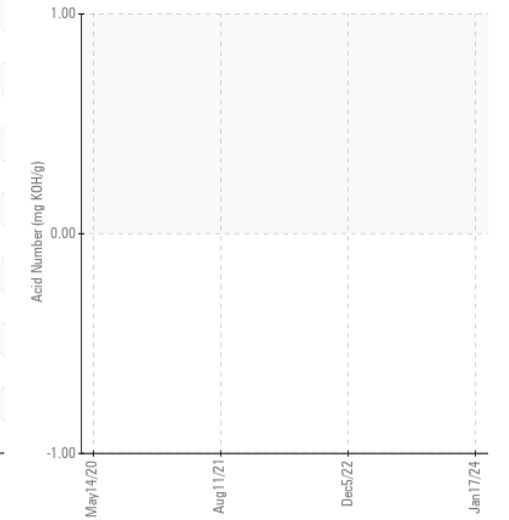
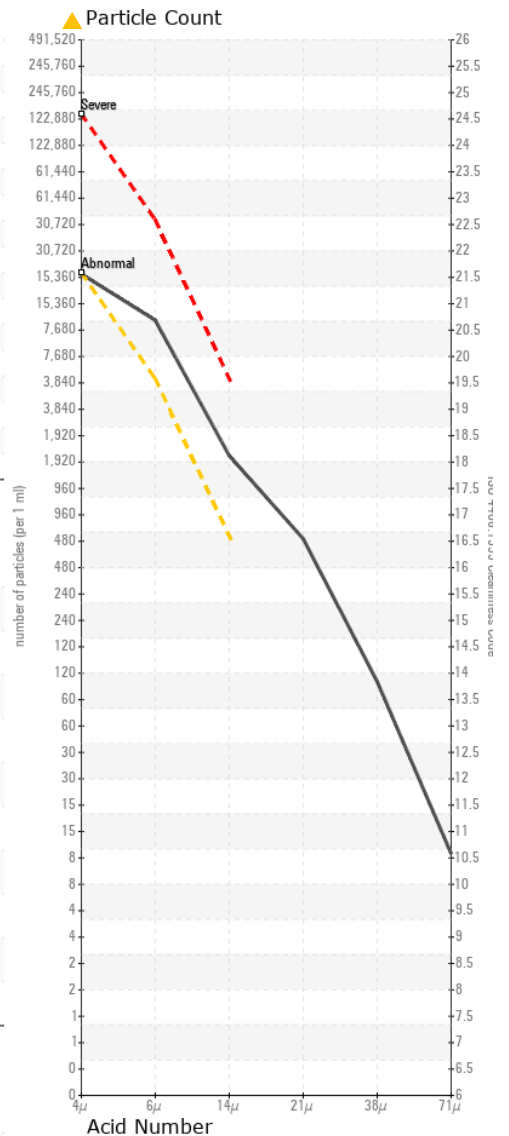
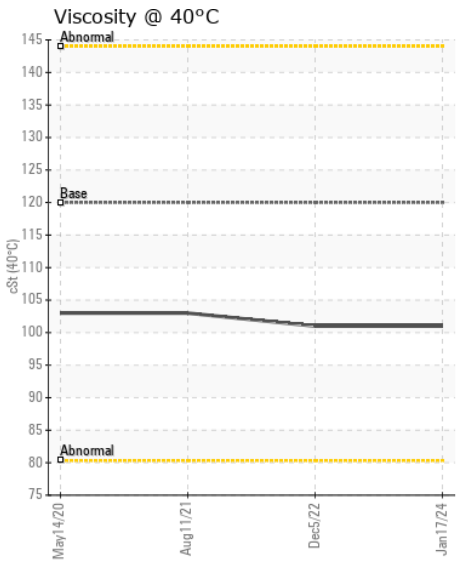
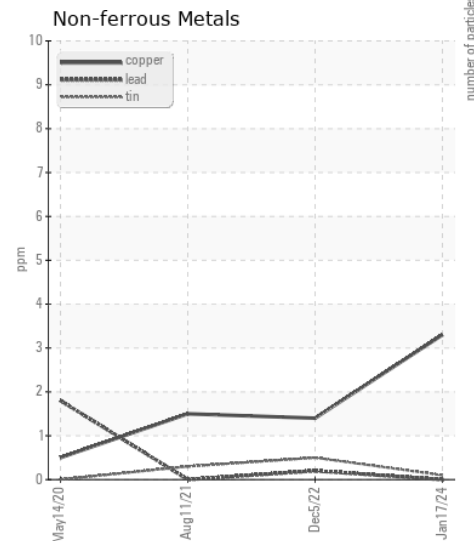
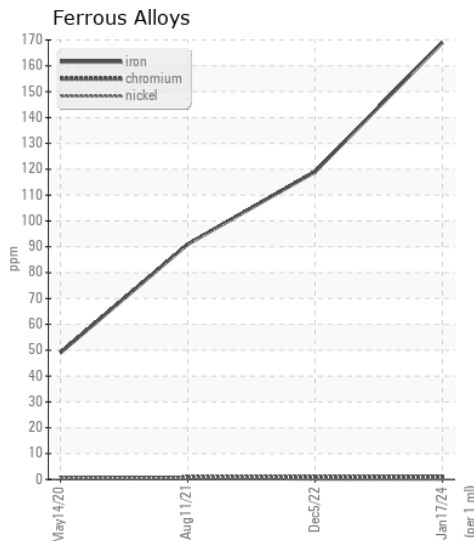
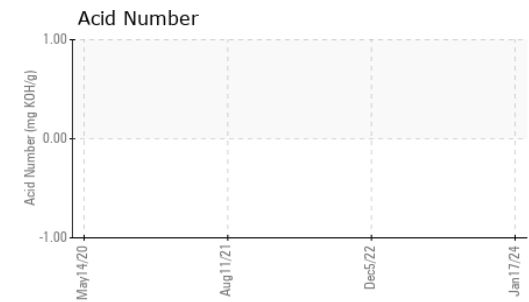
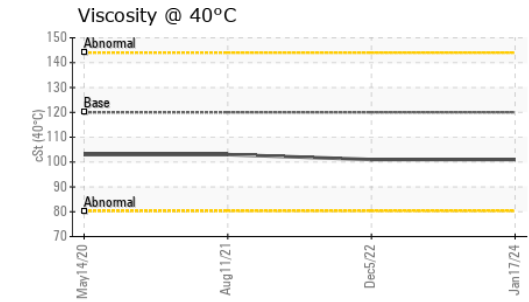
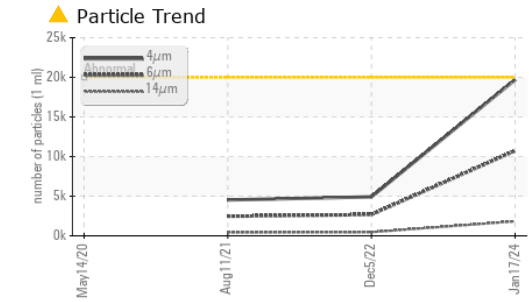
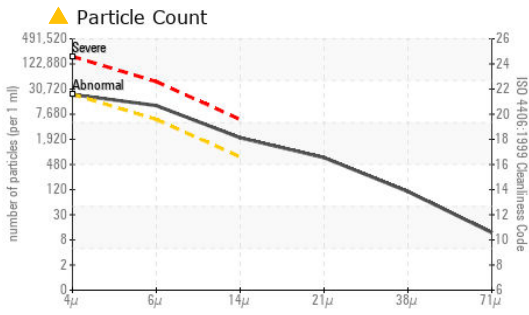
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>75	38	17	14
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	19705	4917	4522
Particles >6µm		ASTM D7647	>5000	▲ 10734	2679	2463
Particles >14µm		ASTM D7647	>640	▲ 1827	456	419
Particles >21µm		ASTM D7647	>160	▲ 615	154	141
Particles >38µm		ASTM D7647	>40	▲ 95	24	22
Particles >71µm		ASTM D7647	>10	10	2	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 21/21/18	19/19/16	19/18/16
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
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	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		10	10	11
Boron	ppm	ASTM D5185m		214	267	311
Barium	ppm	ASTM D5185m		1	4	2
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		13	12	11
Magnesium	ppm	ASTM D5185m		3	3	<1
Calcium	ppm	ASTM D5185m		13	11	7
Phosphorus	ppm	ASTM D5185m		1378	1374	1465
Zinc	ppm	ASTM D5185m		12	22	2
Sulfur	ppm	ASTM D5185m		22814	27980	23910
Visc @ 40°C	cSt	ASTM D445	120	101	101	103



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0861786 **Received** : 19 Jan 2024
Lab Number : 06065483 **Diagnosed** : 23 Jan 2024
Unique Number : 10836865 **Diagnostician** : Don Baldrige
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)

CAROLINA SUNROCK
 PO BOX 25
 BUTNER, NC
 US 27509

Contact: Leigh Dennis
 rdennis@thesunrockgroup.com

T: (919)575-4505

F: (919)575-0162