



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6438 6438
 Component
Rear Differential
 Fluid
MOBIL DELVAC 1 SYNTHETIC GEAR SAE 75W90 (5 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0947773	WC0819158	WC0716534
Sample Date		Client Info		11 Jun 2024	21 Jun 2023	13 Jul 2022
Machine Age	hrs	Client Info		10615	8508	6640
Oil Age	hrs	Client Info		2107	4345	2477
Filter Age	hrs	Client Info		2107	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	53	49	47
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	<1	2
Aluminum	ppm	ASTM D5185m	>25	5	2	2
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

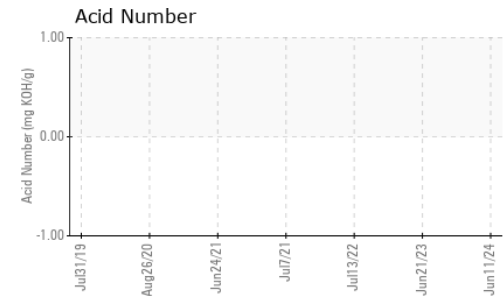
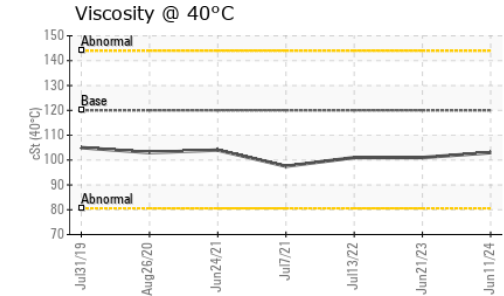
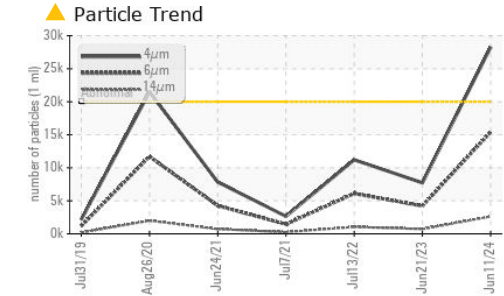
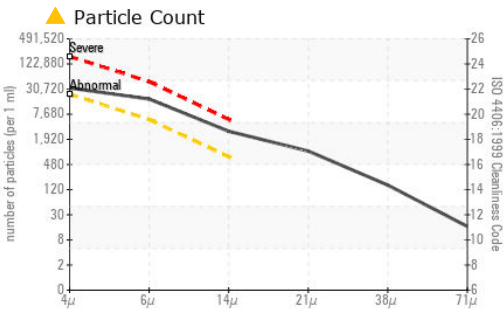
There is a high amount of particulates present in the oil. High concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>75	11	4	5
Potassium	ppm	ASTM D5185m	>20	3	0	<1
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	▲ 28265	7725	11207
Particles >6µm		ASTM D7647	>5000	▲ 15398	4208	6105
Particles >14µm		ASTM D7647	>640	▲ 2621	716	1039
Particles >21µm		ASTM D7647	>160	▲ 883	241	350
Particles >38µm		ASTM D7647	>40	▲ 136	37	54
Particles >71µm		ASTM D7647	>10	▲ 14	4	6
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 22/21/19	20/19/17	21/20/17
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ HEAVY	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		4	2	2
Boron	ppm	ASTM D5185m		273	275	312
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	2	2
Manganese	ppm	ASTM D5185m		3	2	2
Magnesium	ppm	ASTM D5185m		8	12	18
Calcium	ppm	ASTM D5185m		87	42	50
Phosphorus	ppm	ASTM D5185m		1058	1340	1247
Zinc	ppm	ASTM D5185m		48	6	52
Sulfur	ppm	ASTM D5185m		23859	29464	25056
Visc @ 40°C	cSt	ASTM D445	120	103	101	101



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0947773
Lab Number : 06209943
Unique Number : 11082807
Test Package : CONST (Additional Tests: PrtCount)

Received : 14 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 20 Jun 2024 - Jonathan Hester

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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