



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
8003 8003
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (8 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0902909	WC0861554	WC0835063
Sample Date		Client Info		23 Feb 2024	28 Nov 2023	10 Aug 2023
Machine Age	hrs	Client Info		2528	2310	2065
Oil Age	hrs	Client Info		218	245	289
Filter Age	hrs	Client Info		218	245	289
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	13	6	10
Chromium	ppm	ASTM D5185m	>5	1	<1	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	8	3	6
Lead	ppm	ASTM D5185m	>150	1	0	1
Copper	ppm	ASTM D5185m	>90	1	<1	1
Tin	ppm	ASTM D5185m	>5	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

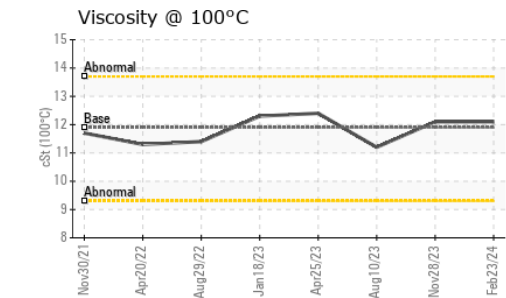
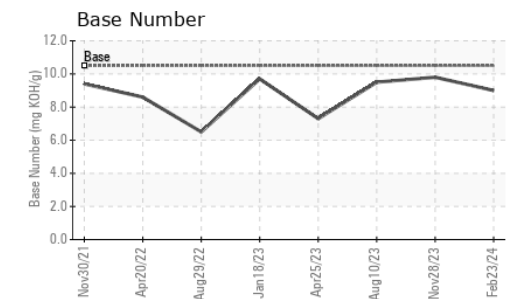
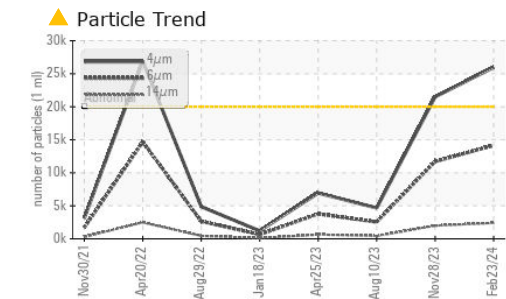
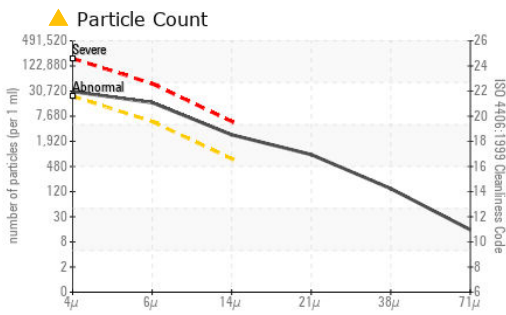
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>35	10	8	9
Potassium	ppm	ASTM D5185m	>20	23	8	18
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	0.4	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.0	6.6	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	21.7	21.9
Particles >4µm		ASTM D7647	>20000	▲ 25970	▲ 21497	4672
Particles >6µm		ASTM D7647	>5000	▲ 14148	▲ 11711	2545
Particles >14µm		ASTM D7647	>640	▲ 2408	▲ 1993	433
Particles >21µm		ASTM D7647	>160	▲ 811	▲ 671	146
Particles >38µm		ASTM D7647	>40	▲ 125	▲ 104	23
Particles >71µm		ASTM D7647	>10	▲ 13	▲ 11	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 22/21/18	▲ 22/21/18	19/19/16
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	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		2	3	0
Boron	ppm	ASTM D5185m		40	51	48
Barium	ppm	ASTM D5185m		1	0	2
Molybdenum	ppm	ASTM D5185m		44	43	52
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		450	487	494
Calcium	ppm	ASTM D5185m		1452	1716	1744
Phosphorus	ppm	ASTM D5185m		705	774	762
Zinc	ppm	ASTM D5185m		869	887	927
Sulfur	ppm	ASTM D5185m		2657	2339	2713
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.6	19.8	20.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.0	9.8	9.5
Visc @ 100°C	cSt	ASTM D445	11.9	12.1	12.1	11.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0902909 **Received** : 27 Feb 2024
Lab Number : 06101498 **Tested** : 29 Feb 2024
Unique Number : 10899728 **Diagnosed** : 29 Feb 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PrtCount, TBN)

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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