



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
Mobile Fleet
 Machine Id
6447 6447
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (10 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		WC0861725	WC0861625	WC0862066
Sample Date		Client Info		08 Jan 2024	27 Nov 2023	05 Oct 2023
Machine Age	hrs	Client Info		7526	7296	6955
Oil Age	hrs	Client Info		230	346	592
Filter Age	hrs	Client Info		230	346	592
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	4	5	3
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	10
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	6	6	11
Tin	ppm	ASTM D5185m	>15	<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

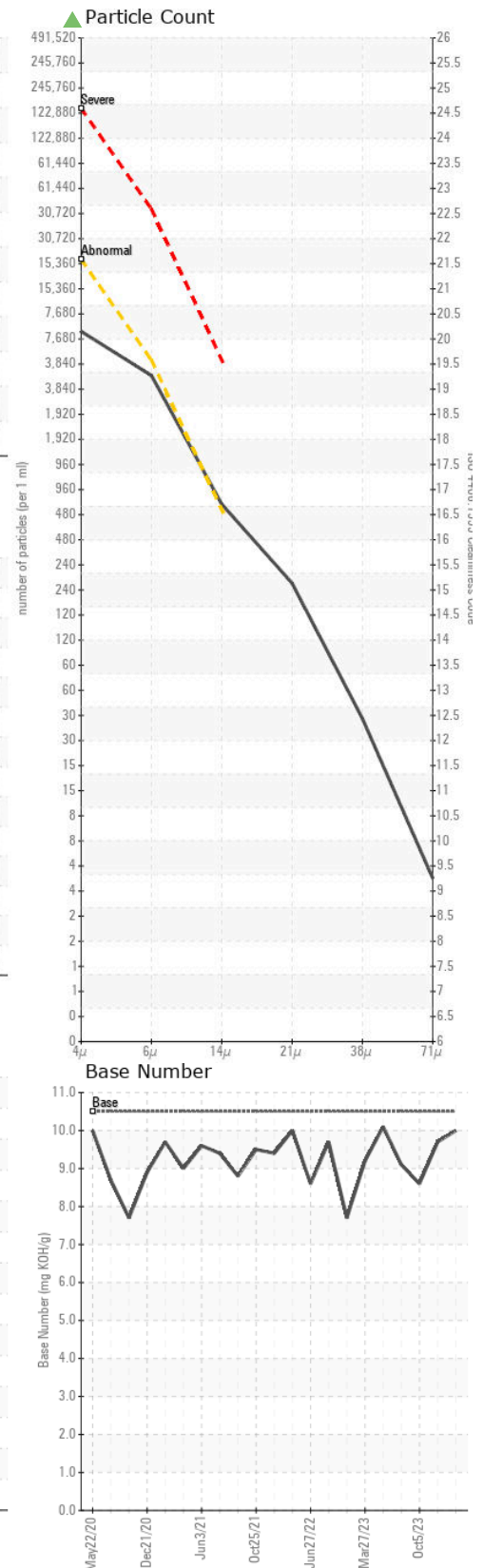
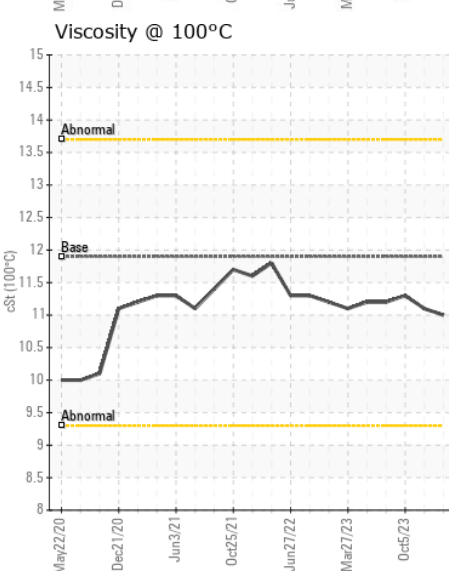
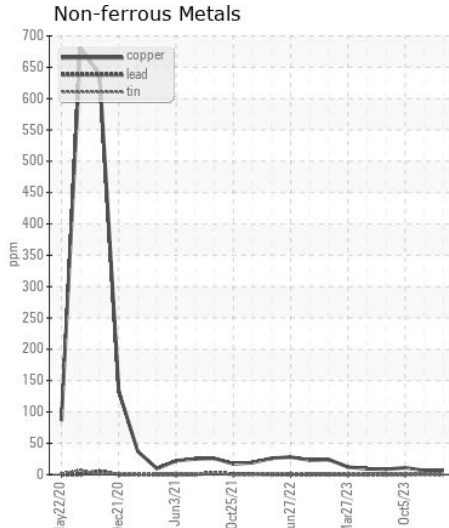
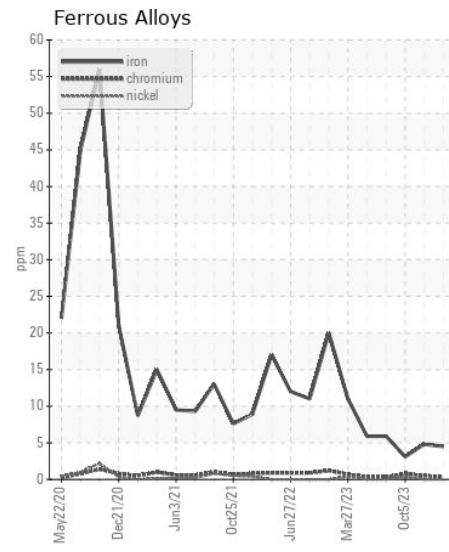
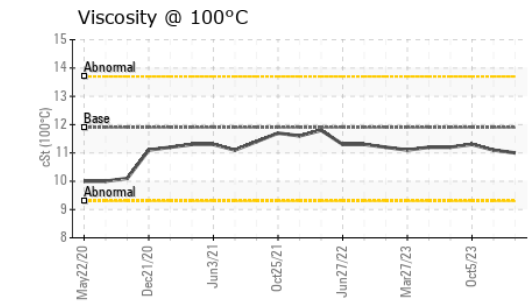
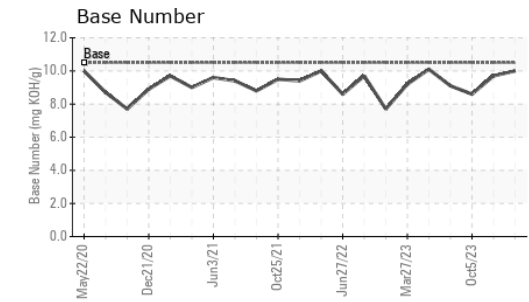
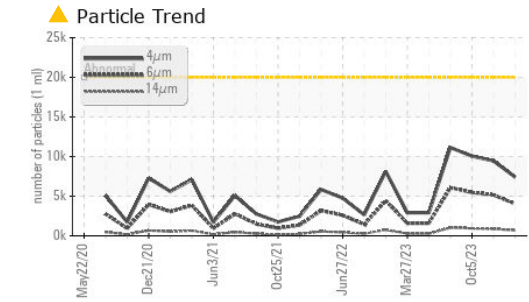
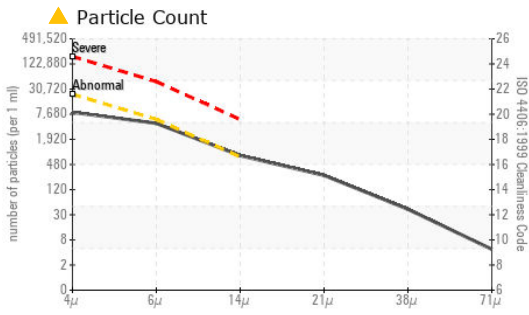
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	5	4	6
Potassium	ppm	ASTM D5185m	>20	1	3	6
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	5.8	6.5	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	21.6	21.2
Particles >4µm		ASTM D7647	>20000	7421	9448	10048
Particles >6µm		ASTM D7647	>5000	4043	▲ 5147	▲ 5474
Particles >14µm		ASTM D7647	>640	▲ 688	▲ 876	▲ 932
Particles >21µm		ASTM D7647	>160	▲ 232	▲ 295	▲ 314
Particles >38µm		ASTM D7647	>40	36	▲ 46	▲ 48
Particles >71µm		ASTM D7647	>10	4	5	5
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 20/19/17	▲ 20/20/17	▲ 21/20/17
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	2	2
Boron	ppm	ASTM D5185m		56	44	31
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		48	50	49
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		492	503	501
Calcium	ppm	ASTM D5185m		1615	1667	1563
Phosphorus	ppm	ASTM D5185m		766	696	737
Zinc	ppm	ASTM D5185m		898	917	936
Sulfur	ppm	ASTM D5185m		2424	2295	2678
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	19.5	19.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	10.0	9.7	8.6
Visc @ 100°C	cSt	ASTM D445	11.9	11.0	11.1	11.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0861725 **Received** : 10 Jan 2024
Lab Number : 06056568 **Diagnosed** : 11 Jan 2024
Unique Number : 10822517 **Diagnostician** : Don Baldrige
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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