



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area

Mobile Fleet

Machine Id

6415 6415

Component

Diesel Engine

Fluid

MOBIL DELVAC 1300 SUPER 10W30 (10 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. 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		WC0861917	WC0852534	WC0834999
Sample Date		Client Info		03 Jan 2024	20 Sep 2023	03 Aug 2023
Machine Age	hrs	Client Info		15029	14656	14353
Oil Age	hrs	Client Info		382	312	312
Filter Age	hrs	Client Info		382	615	312
Oil Changed		Client Info		Changed	Changed	Not Chngd
Filter Changed		Client Info		Changed	Changed	Not Chngd
Sample Status				ATTENTION	ABNORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	15	21	14
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	7	6	4
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	2	1
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

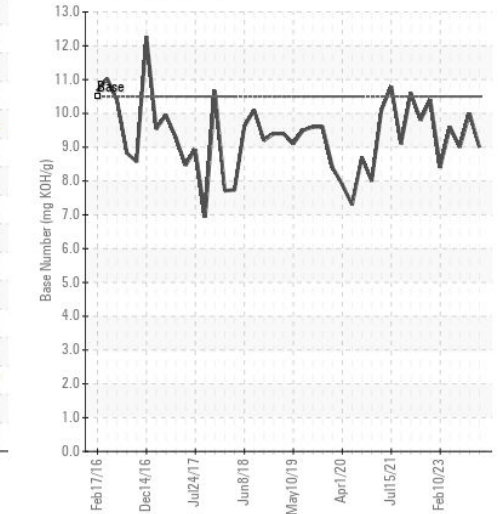
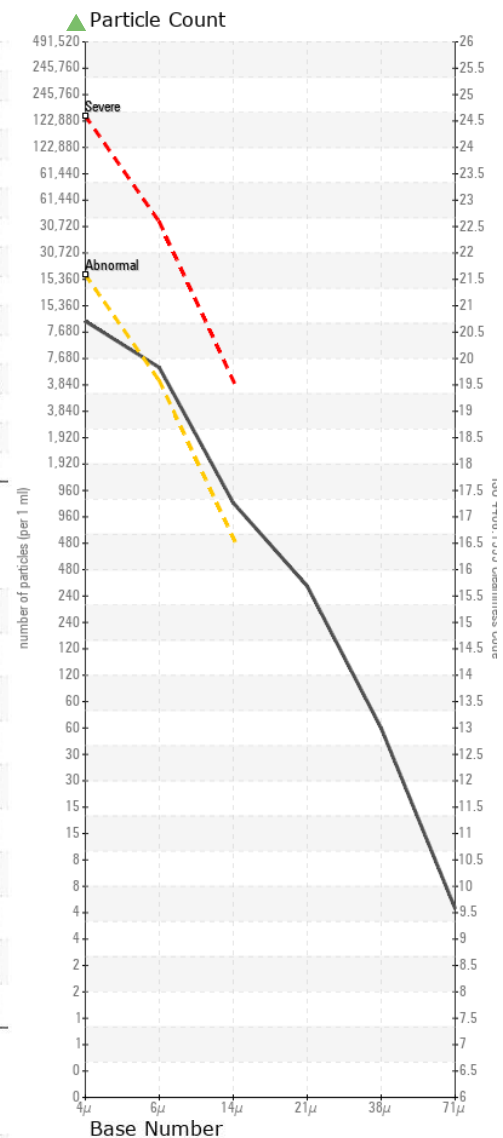
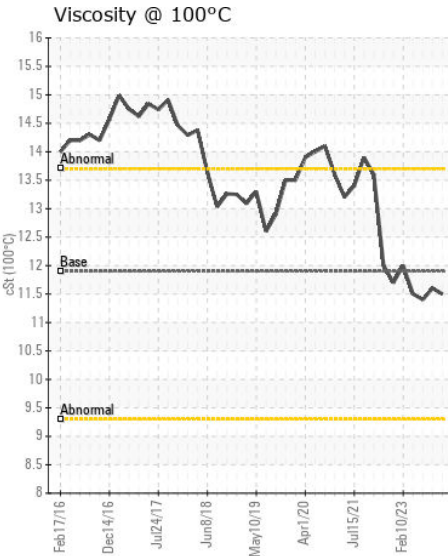
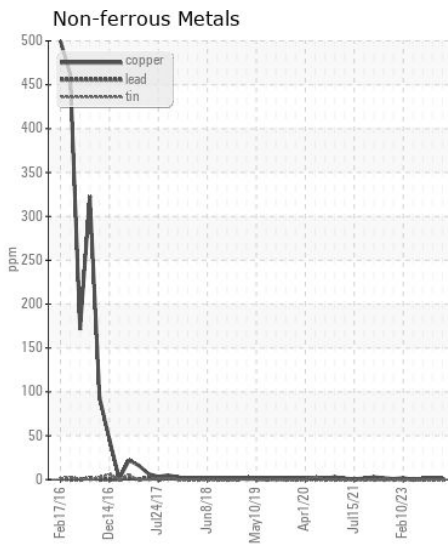
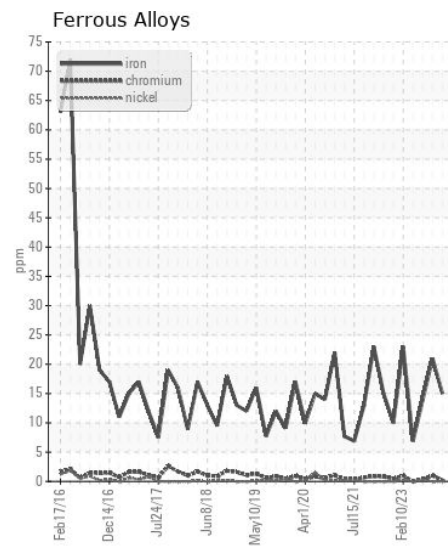
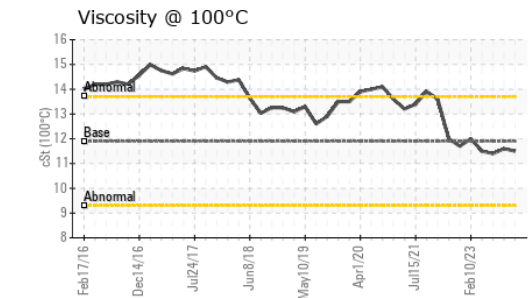
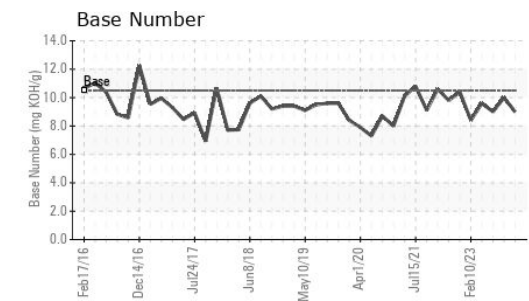
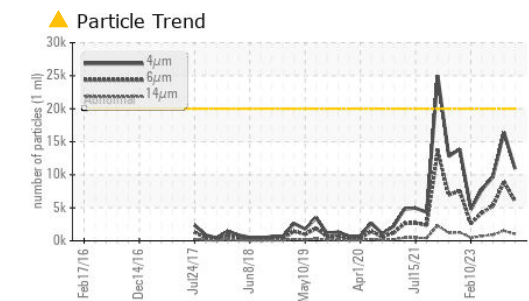
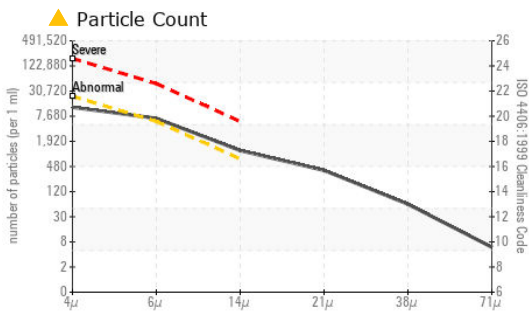
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	6	9	7
Potassium	ppm	ASTM D5185m	>20	5	5	4
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	0.7	0.9	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.4	9.1	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	21.9	21.0
Particles >4µm		ASTM D7647	>20000	10901	16402	9674
Particles >6µm		ASTM D7647	>5000	▲ 5938	▲ 8935	▲ 5270
Particles >14µm		ASTM D7647	>640	▲ 1011	▲ 1521	▲ 897
Particles >21µm		ASTM D7647	>160	▲ 340	▲ 512	▲ 302
Particles >38µm		ASTM D7647	>40	▲ 53	▲ 79	▲ 47
Particles >71µm		ASTM D7647	>10	5	8	5
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 21/20/17	▲ 21/20/18	▲ 20/20/17
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	3	0
Boron	ppm	ASTM D5185m		51	33	50
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		55	48	48
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		514	557	468
Calcium	ppm	ASTM D5185m		1662	1727	1598
Phosphorus	ppm	ASTM D5185m		784	769	735
Zinc	ppm	ASTM D5185m		914	958	883
Sulfur	ppm	ASTM D5185m		2723	3102	2544
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	19.2	18.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.0	10.0	9.0
Visc @ 100°C	cSt	ASTM D445	11.9	11.5	11.6	11.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0861917 **Received** : 09 Jan 2024
Lab Number : 06055819 **Diagnosed** : 11 Jan 2024
Unique Number : 10821768 **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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