



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**Mobile Fleet**  
 Machine Id  
**8108 8108**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER 10W30 (10 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0885959</b>	WC0861556	WC0862045
Sample Date		Client Info		<b>15 Jan 2024</b>	28 Nov 2023	03 Oct 2023
Machine Age	hrs	Client Info		<b>16109</b>	12707	12383
Oil Age	hrs	Client Info		<b>279</b>	273	318
Filter Age	hrs	Client Info		<b>279</b>	273	318
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Changed
Filter Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>65	<b>6</b>	4	10
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>35	<b>4</b>	2	6
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>180	<b>2</b>	6	3
Tin	ppm	ASTM D5185m	>8	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

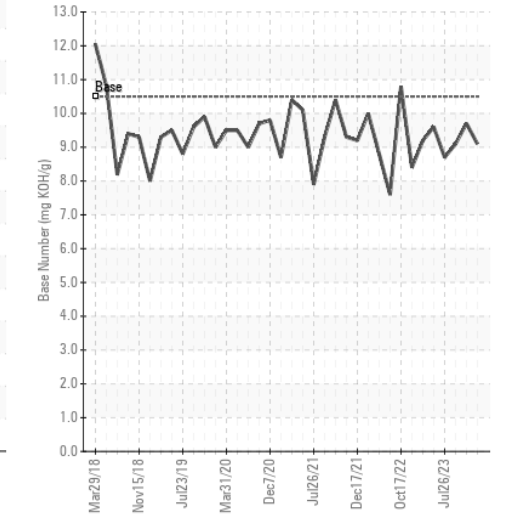
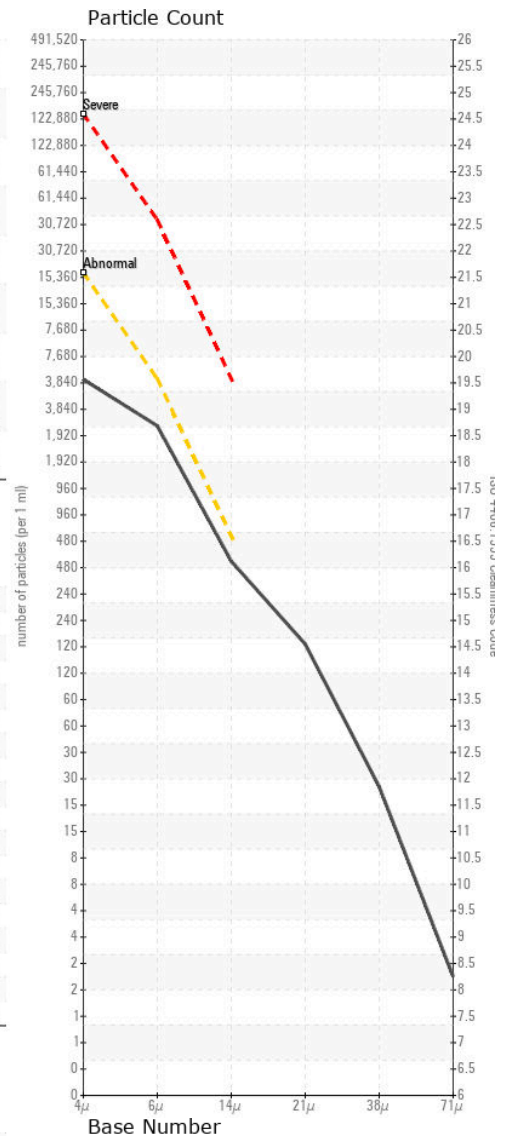
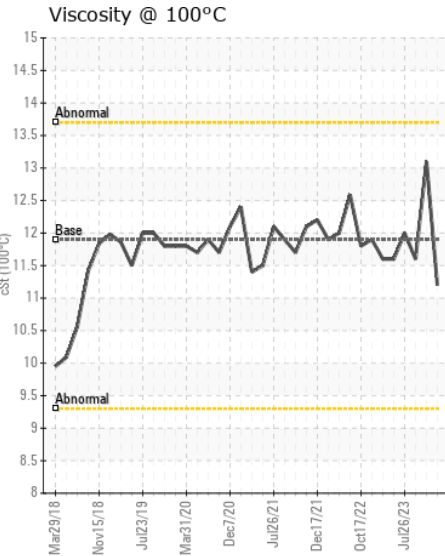
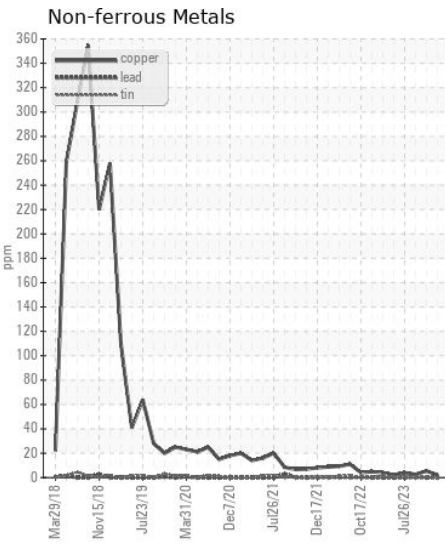
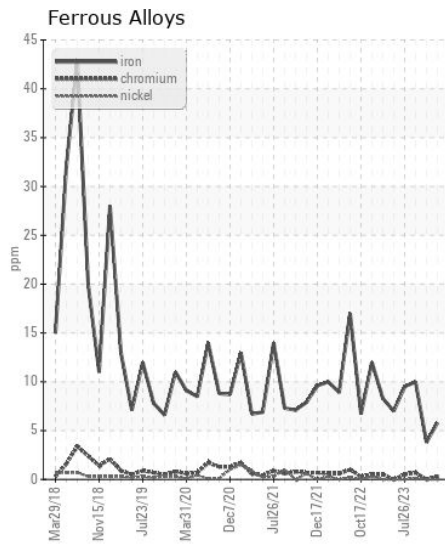
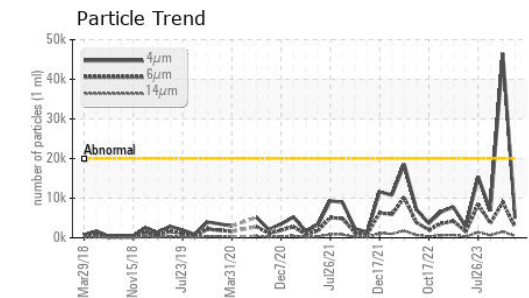
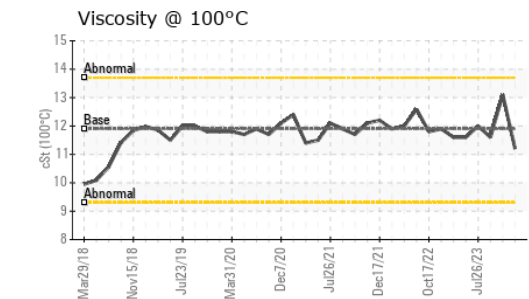
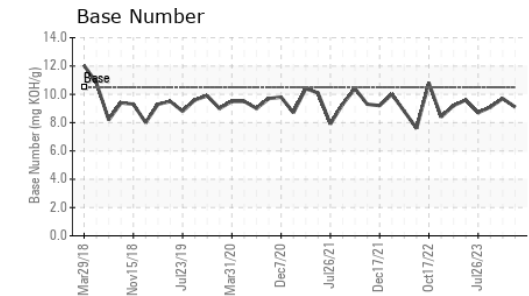
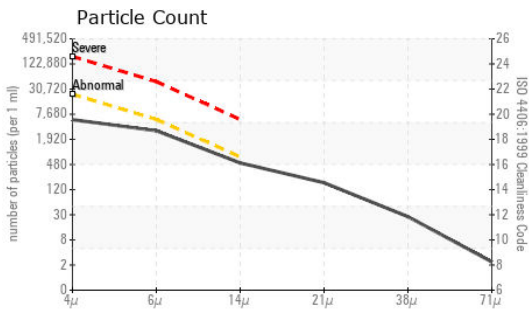
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>15	<b>8</b>	▲ 28	10
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	4
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.8</b>	5.8	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.3</b>	18.8	21.0
Particles >4µm		ASTM D7647	>20000	<b>4950</b>	▲ 46486	6864
Particles >6µm		ASTM D7647	>5000	<b>2697</b>	▲ 8981	3739
Particles >14µm		ASTM D7647	>640	<b>459</b>	▲ 1528	636
Particles >21µm		ASTM D7647	>160	<b>155</b>	▲ 515	214
Particles >38µm		ASTM D7647	>40	<b>24</b>	▲ 79	33
Particles >71µm		ASTM D7647	>10	<b>2</b>	8	3
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>19/19/16</b>	▲ 23/20/18	20/19/16
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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		<b>2</b>	2	4
Boron	ppm	ASTM D5185m		<b>53</b>	9	40
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>48</b>	58	47
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	1
Magnesium	ppm	ASTM D5185m		<b>514</b>	910	590
Calcium	ppm	ASTM D5185m		<b>1588</b>	1194	1855
Phosphorus	ppm	ASTM D5185m		<b>744</b>	1029	800
Zinc	ppm	ASTM D5185m		<b>917</b>	1202	1023
Sulfur	ppm	ASTM D5185m		<b>2499</b>	2982	3003
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.8</b>	14.4	19.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	<b>9.1</b>	9.7	9.1
Visc @ 100°C	cSt	ASTM D445	11.9	<b>11.2</b>	13.1	11.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0885959 **Received** : 19 Jan 2024  
**Lab Number** : 06065472 **Diagnosed** : 23 Jan 2024  
**Unique Number** : 10836854 **Diagnostician** : Don Baldridge  
**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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