



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**Mobile Fleet**  
 Machine Id  
**8013 8013**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER 10W30 (8 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0947760</b>	WC0771000	WC0764948
Sample Date		Client Info		<b>18 Jun 2024</b>	27 Jun 2023	18 Jan 2023
Machine Age	hrs	Client Info		<b>16672</b>	16238	15758
Oil Age	hrs	Client Info		<b>434</b>	480	668
Filter Age	hrs	Client Info		<b>434</b>	480	668
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>34</b>	29	33
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>3</b>	4	2
Lead	ppm	ASTM D5185m	>50	<b>3</b>	2	3
Copper	ppm	ASTM D5185m	>55	<b>3</b>	2	3
Tin	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

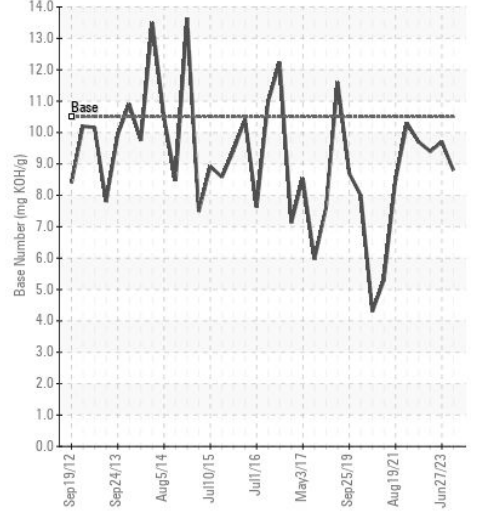
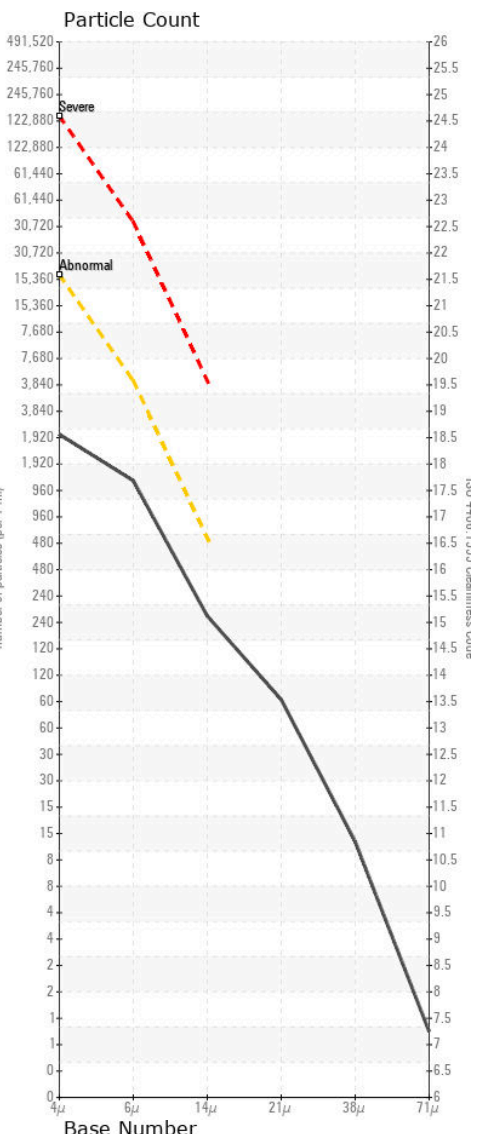
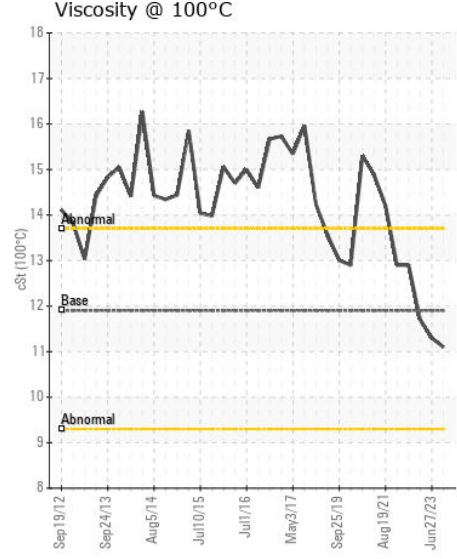
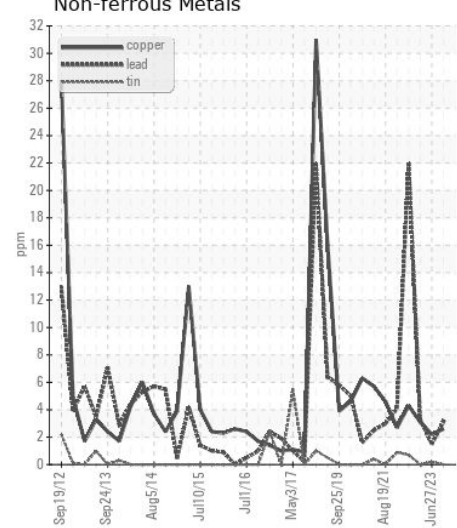
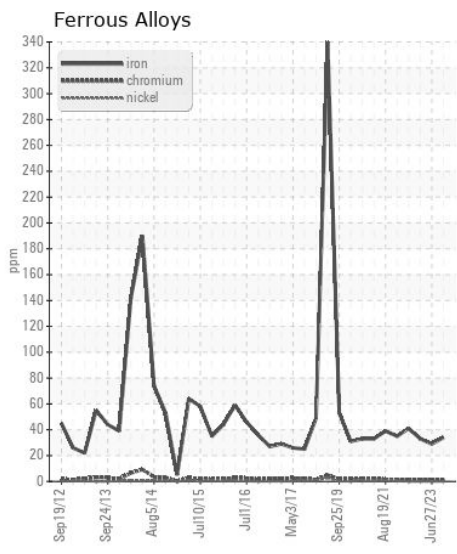
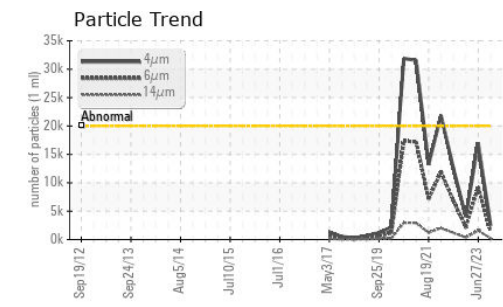
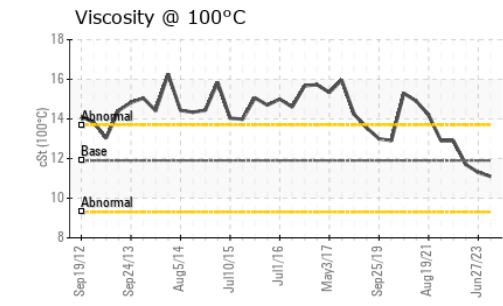
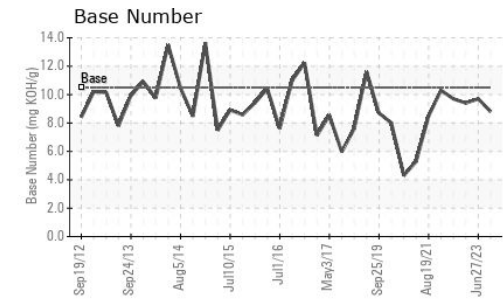
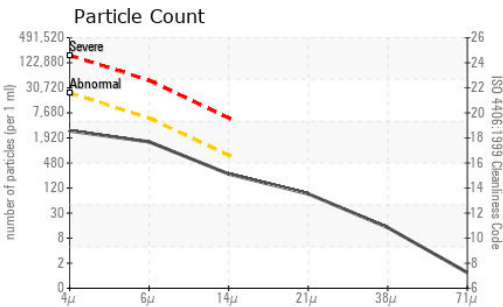
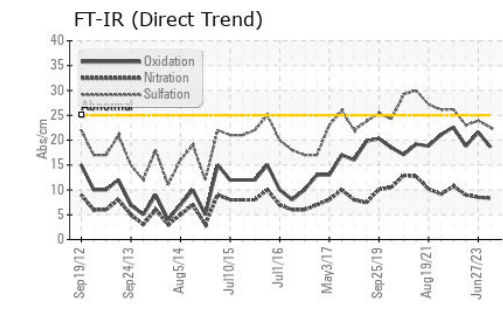
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>15	<b>9</b>	10	9
Potassium	ppm	ASTM D5185m	>20	<b>32</b>	17	0
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	>6	<b>1.3</b>	1.1	1.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.3</b>	8.5	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.5</b>	23.9	23.0
Particles >4µm		ASTM D7647	>20000	<b>2479</b>	16982	4030
Particles >6µm		ASTM D7647	>5000	<b>1351</b>	▲ 9251	2195
Particles >14µm		ASTM D7647	>640	<b>230</b>	▲ 1574	374
Particles >21µm		ASTM D7647	>160	<b>77</b>	▲ 530	126
Particles >38µm		ASTM D7647	>40	<b>12</b>	▲ 82	19
Particles >71µm		ASTM D7647	>10	<b>1</b>	8	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>18/18/15</b>	▲ 21/20/18	19/18/16
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>27</b>	31	19
Boron	ppm	ASTM D5185m		<b>21</b>	25	29
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>68</b>	50	50
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>551</b>	555	592
Calcium	ppm	ASTM D5185m		<b>1753</b>	1746	1498
Phosphorus	ppm	ASTM D5185m		<b>833</b>	776	750
Zinc	ppm	ASTM D5185m		<b>1031</b>	969	905
Sulfur	ppm	ASTM D5185m		<b>3008</b>	3022	2892
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.6</b>	21.6	18.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	<b>8.8</b>	9.7	9.4
Visc @ 100°C	cSt	ASTM D445	11.9	<b>11.1</b>	11.3	11.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0947760  
**Lab Number** : 06215693  
**Unique Number** : 11088557  
**Test Package** : CONST ( Additional Tests: PrtCount, TBN )

**Received** : 20 Jun 2024  
**Tested** : 21 Jun 2024  
**Diagnosed** : 22 Jun 2024 - Don Baldrige

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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