



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area

**Mobile Fleet**

Machine Id

**8114 8114**

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		<b>WC0902797</b>	WC0861940	WC0861730
Sample Date		Client Info		<b>20 Feb 2024</b>	09 Jan 2024	21 Nov 2023
Machine Age	hrs	Client Info		<b>2028</b>	12243	11997
Oil Age	hrs	Client Info		<b>217</b>	246	391
Filter Age	hrs	Client Info		<b>217</b>	246	391
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Sample Status				<b>ATTENTION</b>	ABNORMAL	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>7</b>	4	9
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>6</b>	6	5
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>330	<b>2</b>	2	8
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

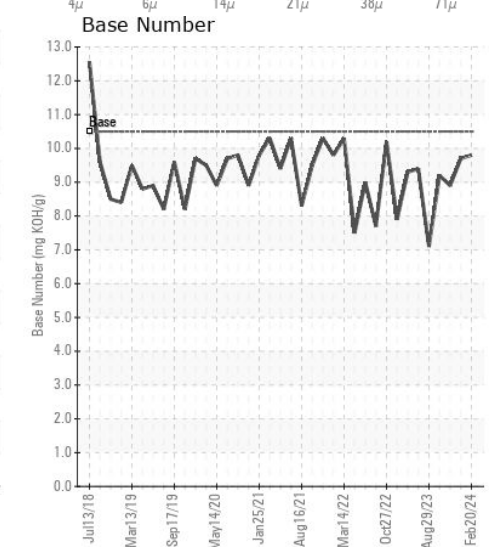
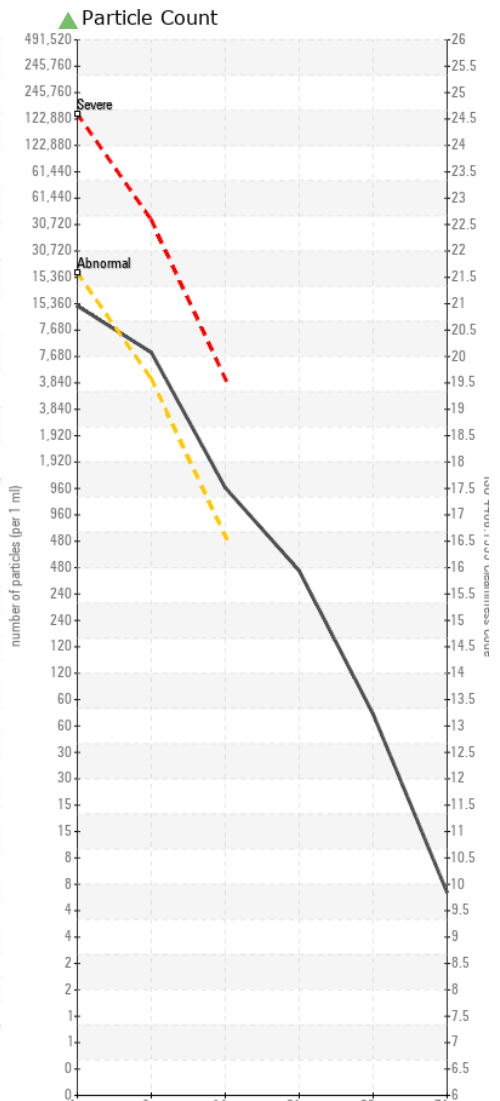
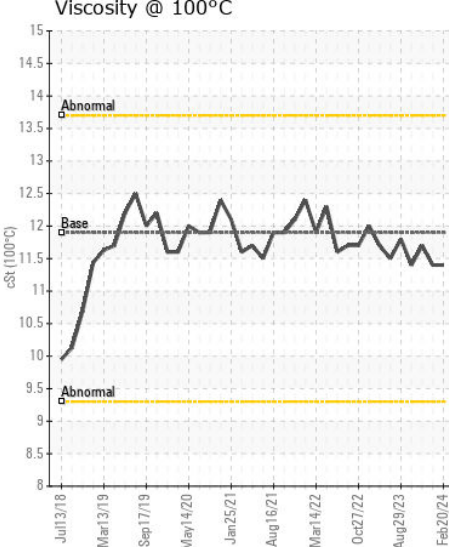
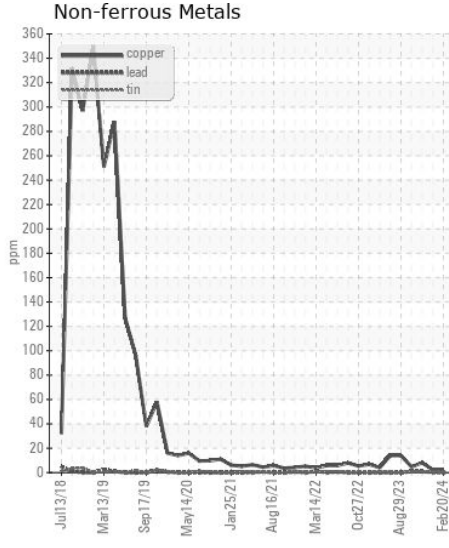
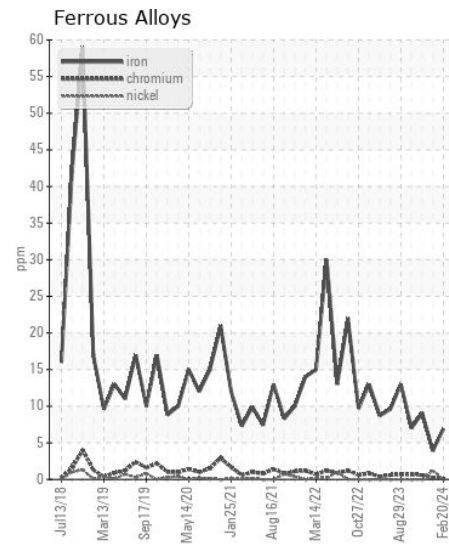
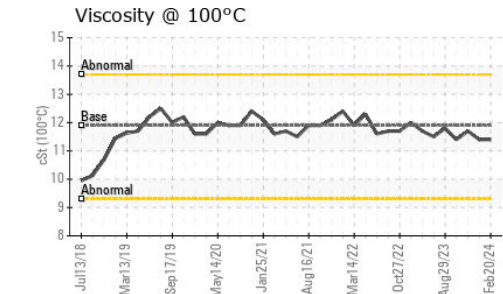
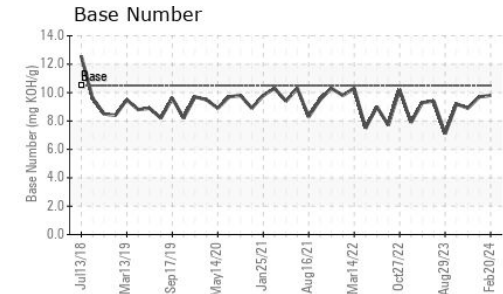
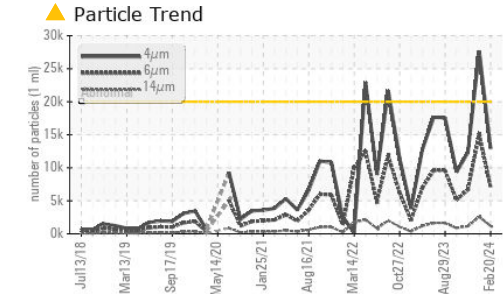
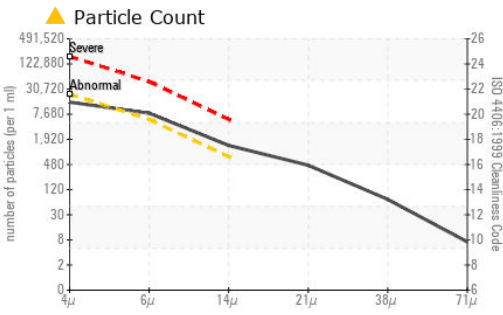
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>12</b>	7	11
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	2
Fuel		WC Method	>5	<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	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.2</b>	6.4	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.9</b>	21.7	22.3
Particles >4µm		ASTM D7647	>20000	<b>12954</b>	▲ 27679	▲ 12266
Particles >6µm		ASTM D7647	>5000	<b>▲ 7057</b>	▲ 15078	▲ 6682
Particles >14µm		ASTM D7647	>640	<b>▲ 1201</b>	▲ 2566	▲ 1137
Particles >21µm		ASTM D7647	>160	<b>▲ 405</b>	▲ 864	▲ 383
Particles >38µm		ASTM D7647	>40	<b>▲ 62</b>	▲ 133	▲ 59
Particles >71µm		ASTM D7647	>10	<b>6</b>	▲ 14	6
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>▲ 21/20/17</b>	▲ 22/21/19	▲ 21/20/17
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>	0	4
Boron	ppm	ASTM D5185m		<b>49</b>	45	29
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>42</b>	45	51
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>484</b>	497	507
Calcium	ppm	ASTM D5185m		<b>1524</b>	1541	1696
Phosphorus	ppm	ASTM D5185m		<b>701</b>	718	695
Zinc	ppm	ASTM D5185m		<b>852</b>	902	925
Sulfur	ppm	ASTM D5185m		<b>2237</b>	2403	2200
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.9</b>	19.7	21.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	<b>9.8</b>	9.7	8.9
Visc @ 100°C	cSt	ASTM D445	11.9	<b>11.4</b>	11.4	11.7



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0902797 **Received** : 22 Feb 2024  
**Lab Number** : 06097599 **Tested** : 23 Feb 2024  
**Unique Number** : 10890452 **Diagnosed** : 24 Feb 2024 - 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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