



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**Mobile Fleet**  
 Machine Id  
**6423 6423**  
 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>WC0937923</b>	WC0919093	WC0902759
Sample Date		Client Info		<b>12 Jun 2024</b>	17 Apr 2024	06 Mar 2024
Machine Age	hrs	Client Info		<b>11900</b>	11604	11358
Oil Age	hrs	Client Info		<b>542</b>	246	638
Filter Age	hrs	Client Info		<b>542</b>	246	638
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>65	<b>9</b>	4	12
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>35	<b>4</b>	2	7
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>180	<b>2</b>	0	4
Tin	ppm	ASTM D5185m	>8	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

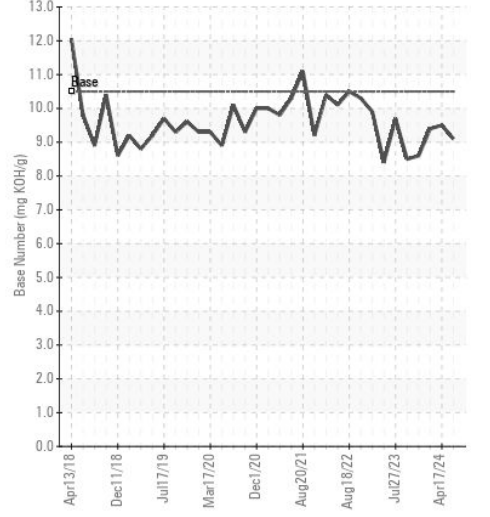
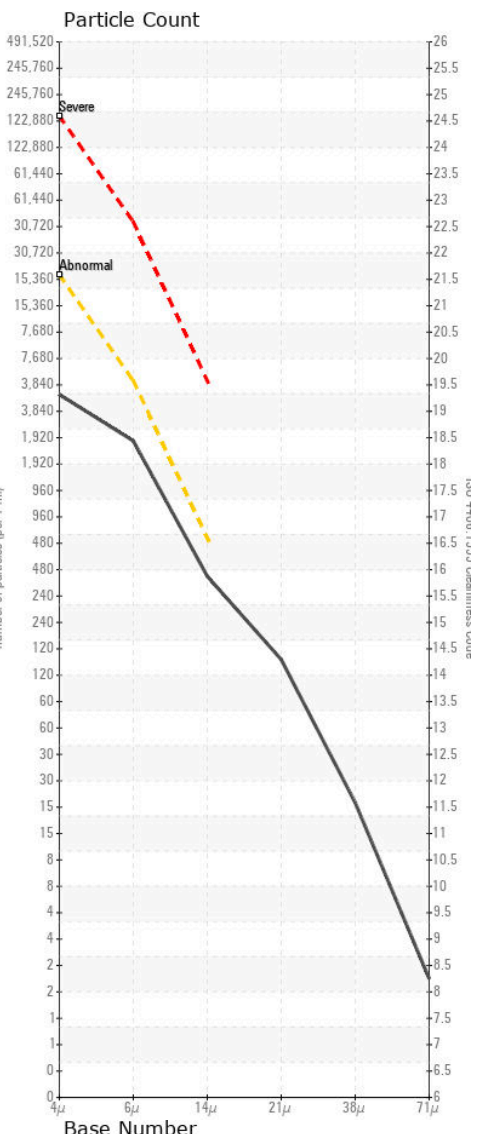
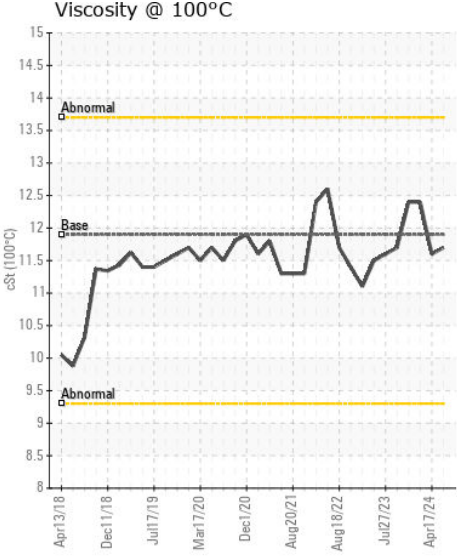
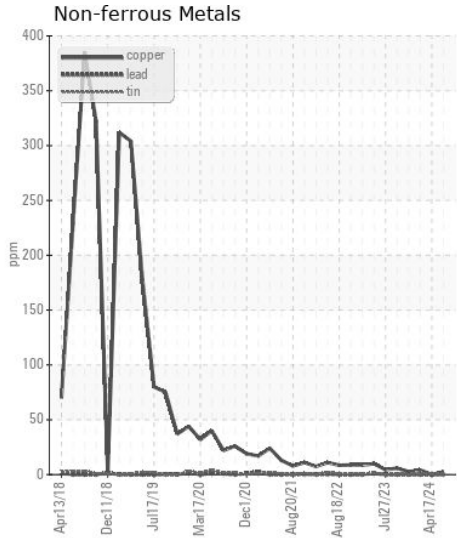
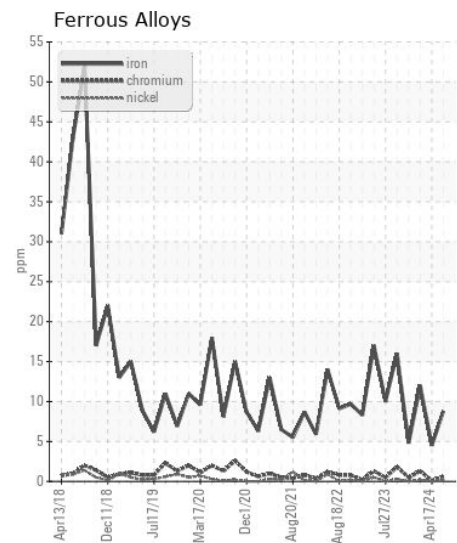
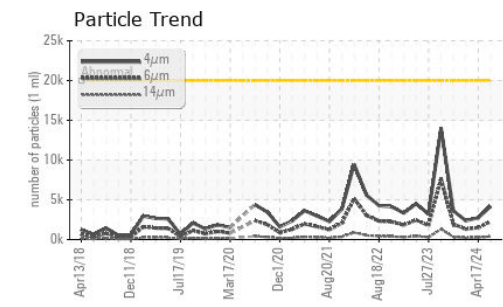
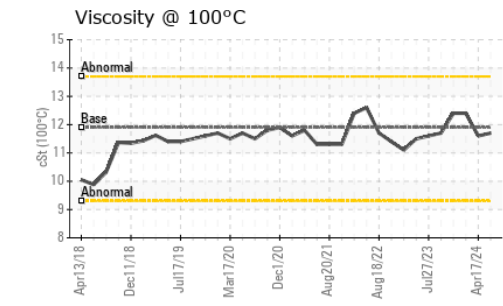
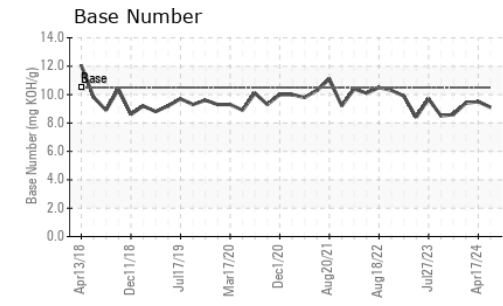
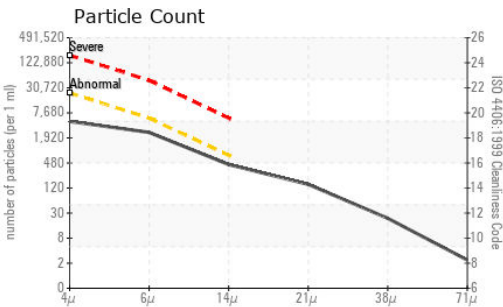
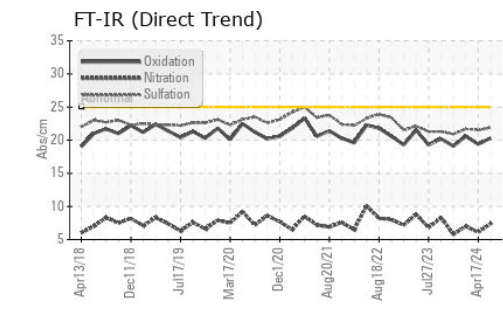
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>15	<b>7</b>	8	10
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	2	10
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>0.3</b>	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.4</b>	6.1	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.9</b>	21.5	21.7
Particles >4µm		ASTM D7647	>20000	<b>4176</b>	2740	2375
Particles >6µm		ASTM D7647	>5000	<b>2275</b>	1493	1294
Particles >14µm		ASTM D7647	>640	<b>387</b>	254	220
Particles >21µm		ASTM D7647	>160	<b>130</b>	86	74
Particles >38µm		ASTM D7647	>40	<b>20</b>	13	11
Particles >71µm		ASTM D7647	>10	<b>2</b>	1	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>19/18/16</b>	19/18/15	18/17/15
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>&lt;1</b>	2	2
Boron	ppm	ASTM D5185m		<b>39</b>	56	58
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>47</b>	46	54
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>489</b>	511	531
Calcium	ppm	ASTM D5185m		<b>1632</b>	1629	1714
Phosphorus	ppm	ASTM D5185m		<b>658</b>	755	806
Zinc	ppm	ASTM D5185m		<b>894</b>	871	950
Sulfur	ppm	ASTM D5185m		<b>2485</b>	2746	2703
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.3</b>	19.4	20.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	<b>9.1</b>	9.5	9.4
Visc @ 100°C	cSt	ASTM D445	11.9	<b>11.7</b>	11.6	12.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0937923  
**Lab Number** : 06209927  
**Unique Number** : 11082791  
**Test Package** : CONST ( Additional Tests: PrtCount, TBN )

**Received** : 14 Jun 2024  
**Tested** : 19 Jun 2024  
**Diagnosed** : 19 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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