



# OIL ANALYSIS REPORT

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

Area  
**Mobile Fleet**  
 Machine Id  
**6420 6420**  
 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>WC0861892</b>	WC0867081	WC0835024
Sample Date		Client Info		<b>12 Jan 2024</b>	09 Nov 2023	15 Aug 2023
Machine Age	hrs	Client Info		<b>13806</b>	13468	13121
Oil Age	hrs	Client Info		<b>339</b>	344	513
Filter Age	hrs	Client Info		<b>339</b>	344	513
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>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>11</b>	8	8
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	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>8</b>	6	3
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>2</b>	<1	1
Tin	ppm	ASTM D5185m	>15	<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

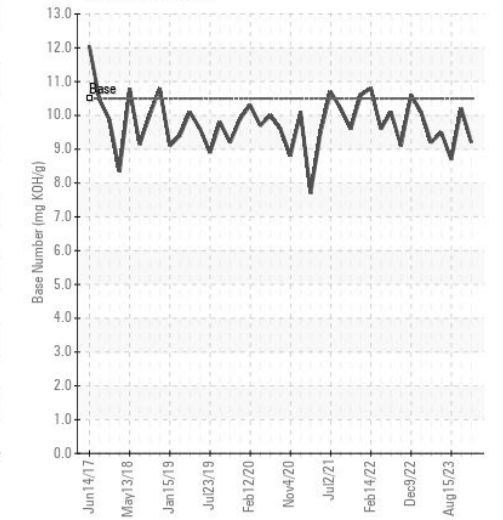
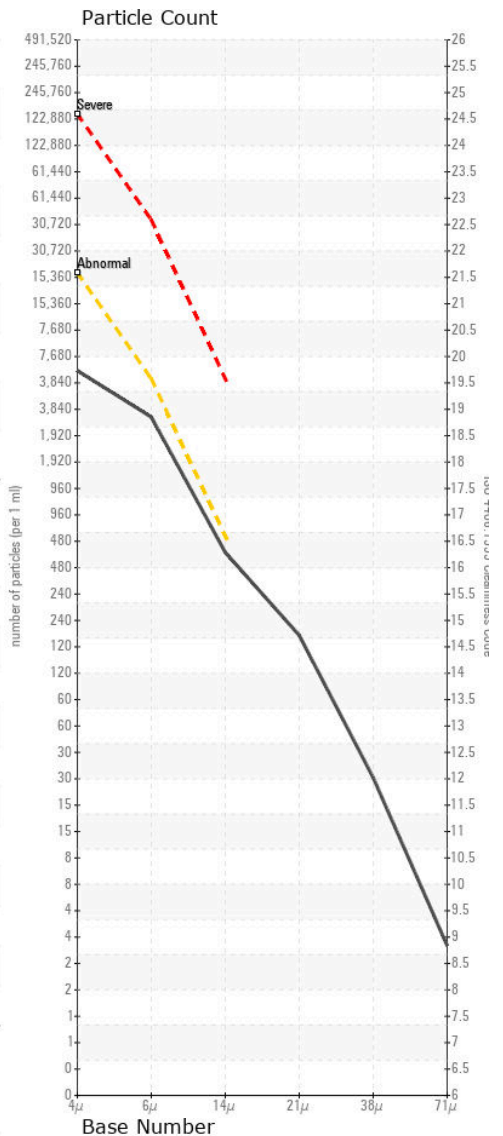
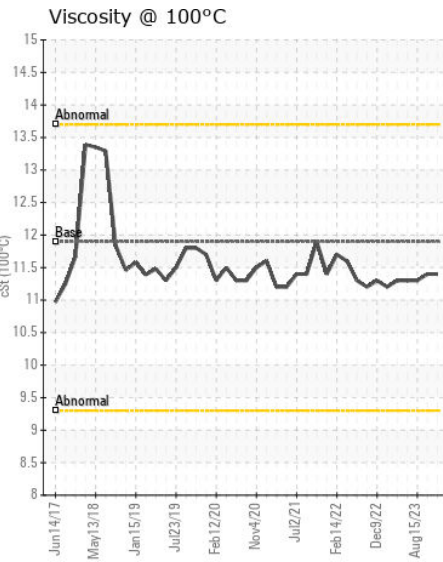
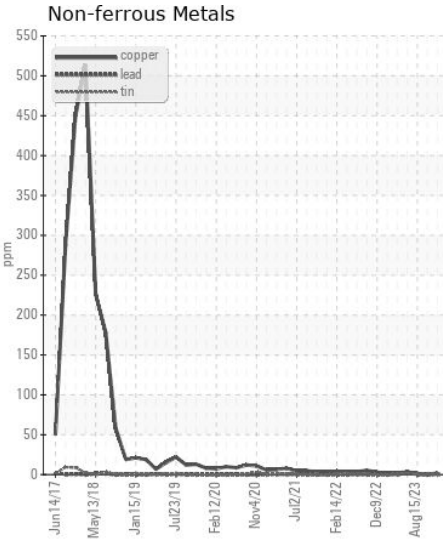
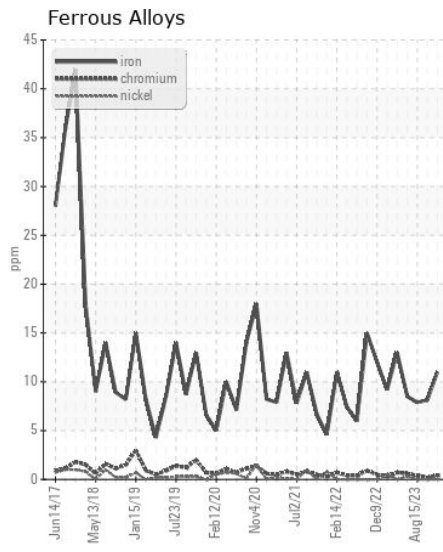
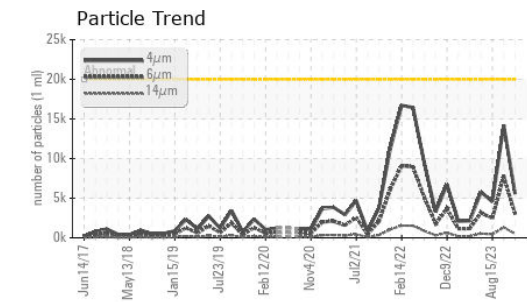
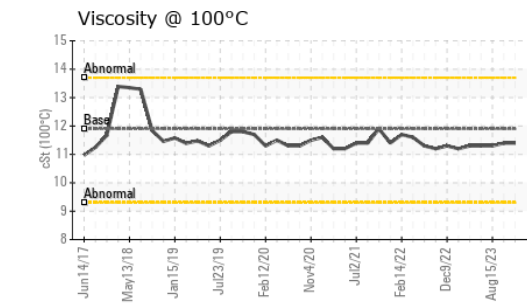
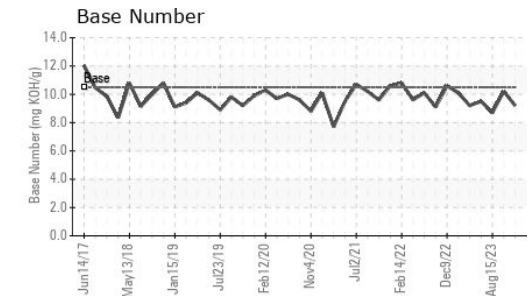
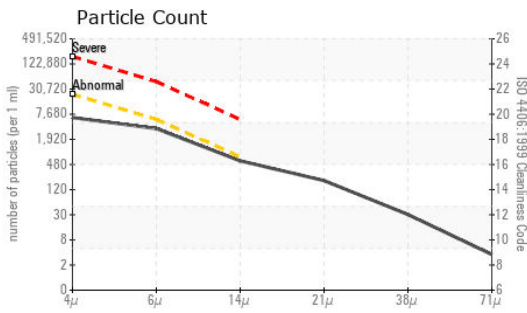
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	10	7
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	3
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>0.4</b>	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.2</b>	6.9	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.6</b>	21.7	21.2
Particles >4µm		ASTM D7647	>20000	<b>5559</b>	14233	4541
Particles >6µm		ASTM D7647	>5000	<b>3028</b>	▲ 7753	2474
Particles >14µm		ASTM D7647	>640	<b>515</b>	▲ 1320	421
Particles >21µm		ASTM D7647	>160	<b>174</b>	▲ 444	142
Particles >38µm		ASTM D7647	>40	<b>27</b>	▲ 69	22
Particles >71µm		ASTM D7647	>10	<b>3</b>	7	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>20/19/16</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>2</b>	1	2
Boron	ppm	ASTM D5185m		<b>37</b>	48	42
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>42</b>	43	50
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>502</b>	520	551
Calcium	ppm	ASTM D5185m		<b>1530</b>	1603	1767
Phosphorus	ppm	ASTM D5185m		<b>771</b>	753	775
Zinc	ppm	ASTM D5185m		<b>890</b>	927	946
Sulfur	ppm	ASTM D5185m		<b>2416</b>	2537	3088
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.7</b>	20.0	19.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	<b>9.2</b>	10.2	8.7
Visc @ 100°C	cSt	ASTM D445	11.9	<b>11.4</b>	11.4	11.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0861892 **Received** : 18 Jan 2024  
**Lab Number** : 06064169 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 10835551 **Diagnostician** : Sean Felton  
**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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