



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area  
**Mobile Fleet**  
 Machine Id  
**6421 6421**  
 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>WC0861782</b>	WC0867084	WC0862086
Sample Date		Client Info		<b>17 Jan 2024</b>	07 Nov 2023	27 Sep 2023
Machine Age	hrs	Client Info		<b>12592</b>	12241	11949
Oil Age	hrs	Client Info		<b>344</b>	292	459
Filter Age	hrs	Client Info		<b>344</b>	292	459
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Sample Status				<b>ATTENTION</b>	NORMAL	ATTENTION

## WEAR

All component wear rates are normal.

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

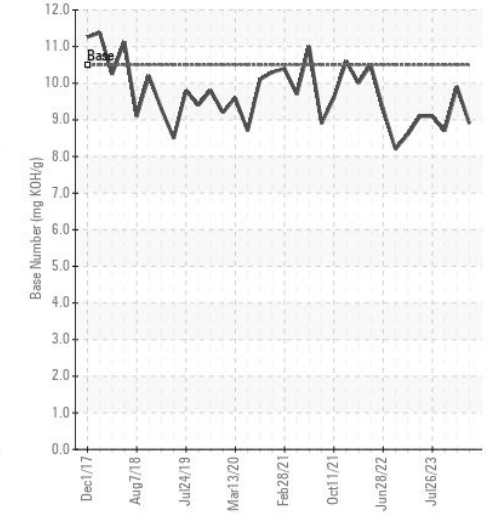
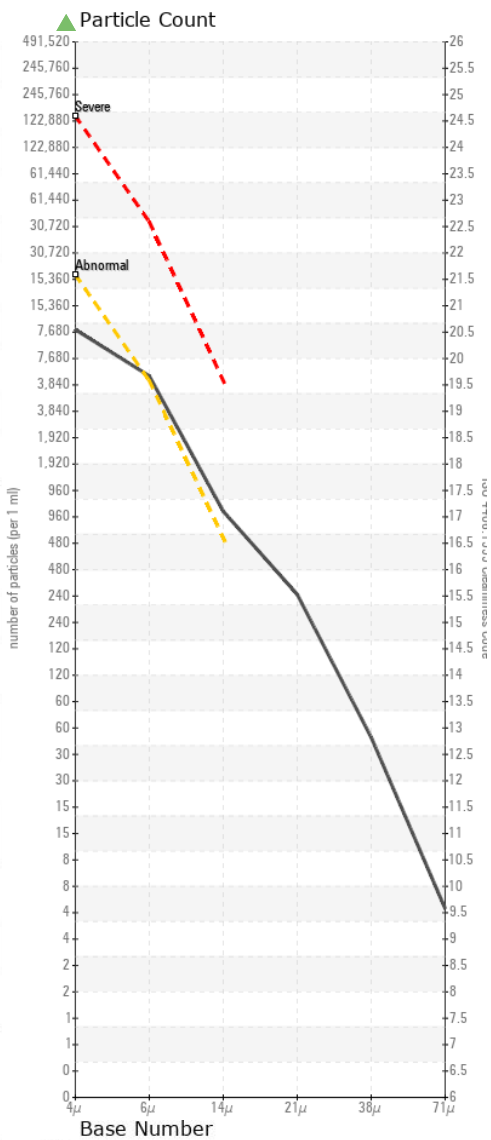
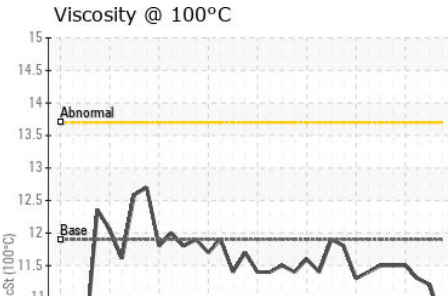
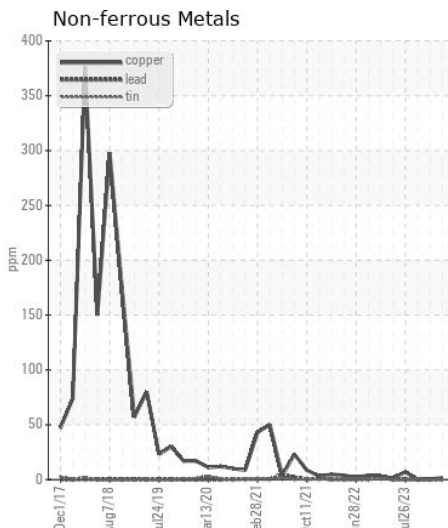
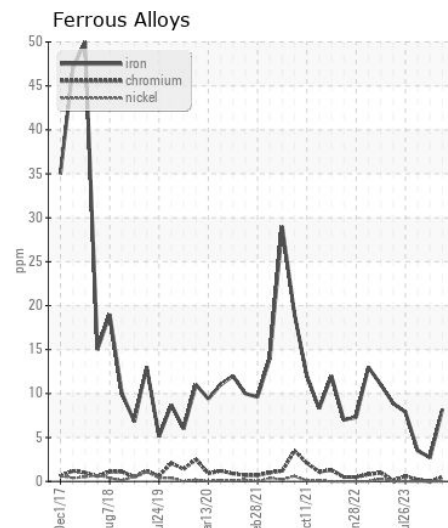
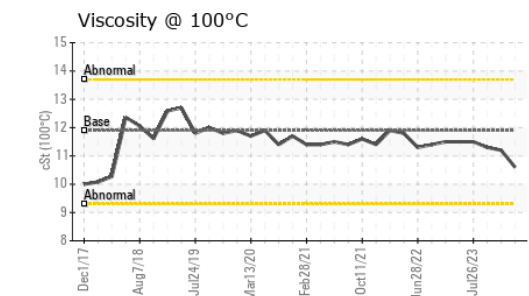
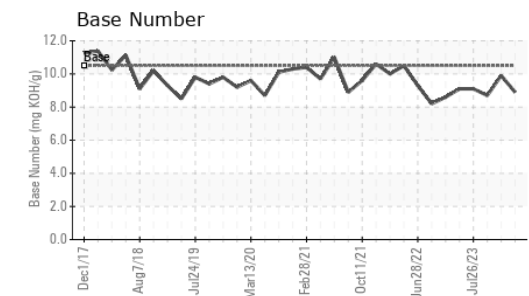
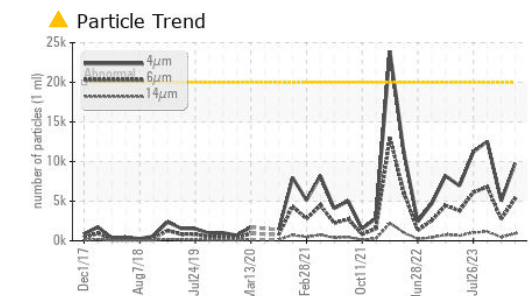
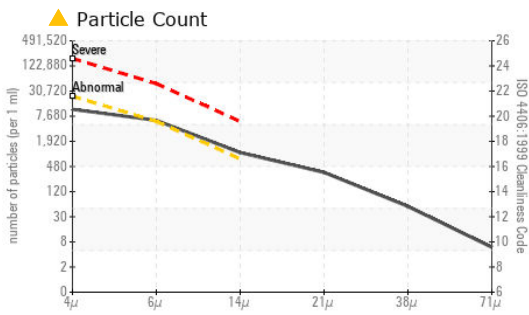
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>7</b>	7	6
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	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>0.3</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.8</b>	6.5	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.8</b>	21.8	21.3
Particles >4µm		ASTM D7647	>20000	<b>9761</b>	5020	12528
Particles >6µm		ASTM D7647	>5000	<b>▲ 5317</b>	2735	▲ 6824
Particles >14µm		ASTM D7647	>640	<b>▲ 905</b>	465	▲ 1161
Particles >21µm		ASTM D7647	>160	<b>▲ 305</b>	157	▲ 391
Particles >38µm		ASTM D7647	>40	<b>▲ 47</b>	24	▲ 60
Particles >71µm		ASTM D7647	>10	<b>5</b>	2	6
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>▲ 20/20/17</b>	20/19/16	▲ 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>3</b>	2	2
Boron	ppm	ASTM D5185m		<b>41</b>	51	40
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>54</b>	51	45
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>537</b>	511	520
Calcium	ppm	ASTM D5185m		<b>1653</b>	1665	1627
Phosphorus	ppm	ASTM D5185m		<b>763</b>	728	746
Zinc	ppm	ASTM D5185m		<b>935</b>	928	899
Sulfur	ppm	ASTM D5185m		<b>2494</b>	2443	2465
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.8</b>	20.1	20.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	<b>8.9</b>	9.9	8.7
Visc @ 100°C	cSt	ASTM D445	11.9	<b>10.6</b>	11.2	11.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0861782 **Received** : 19 Jan 2024  
**Lab Number** : 06065468 **Diagnosed** : 23 Jan 2024  
**Unique Number** : 10836850 **Diagnostician** : 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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