



# OIL ANALYSIS REPORT

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

Area

**Contracting**

Machine Id

**7304 7304**

Component

**Diesel Engine**

Fluid

**MOBIL DELVAC 1300 SUPER 10W30 (5 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>WC0902894</b>	WC0867094	WC0744712
Sample Date		Client Info		<b>22 Feb 2024</b>	05 Dec 2023	07 Oct 2022
Machine Age	hrs	Client Info		<b>10345</b>	0	10174
Oil Age	hrs	Client Info		<b>171</b>	0	563
Filter Age	hrs	Client Info		<b>171</b>	0	563
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changd</b>	N/A	Changed
Sample Status				<b>ATTENTION</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>3</b>	31	25
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	3	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	5	3
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	8
Copper	ppm	ASTM D5185m	>330	<b>0</b>	<1	1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

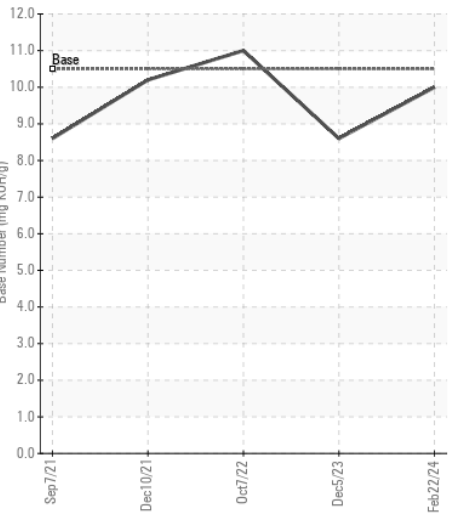
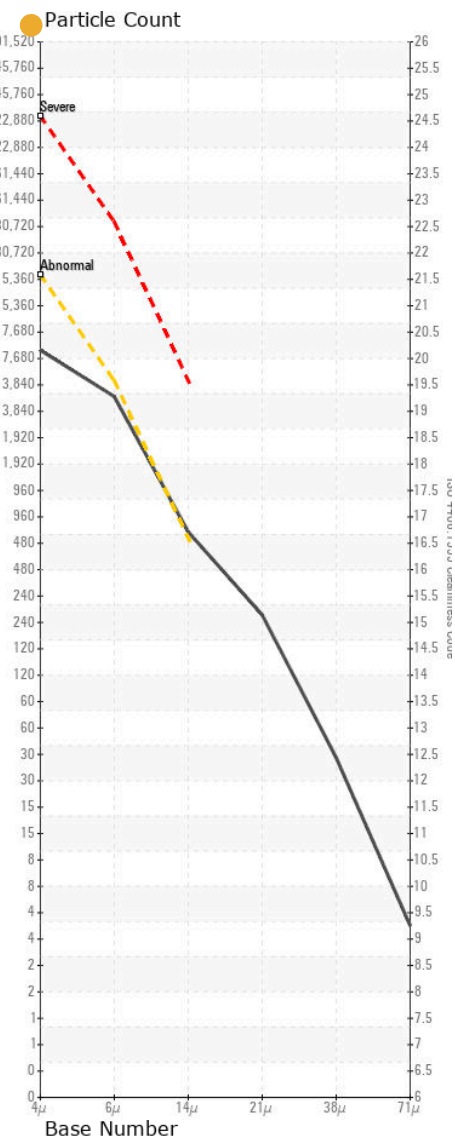
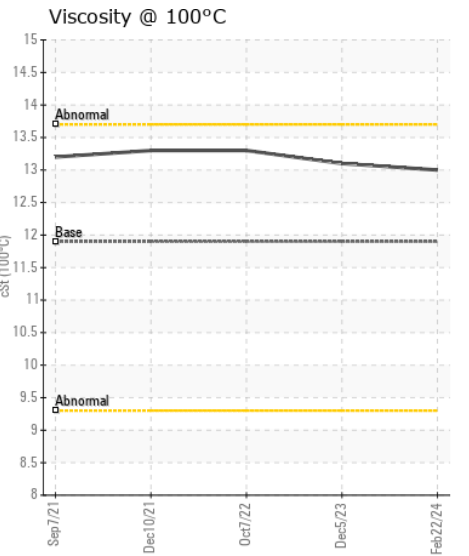
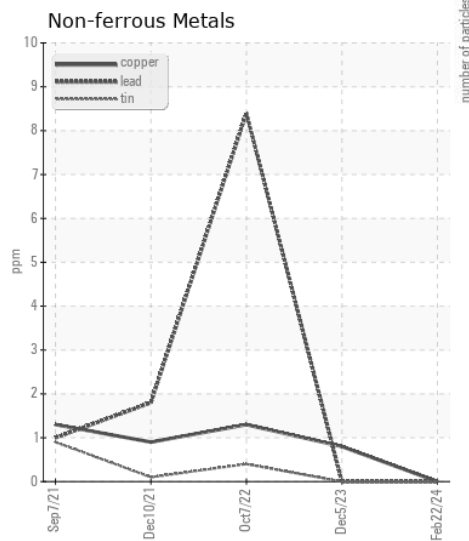
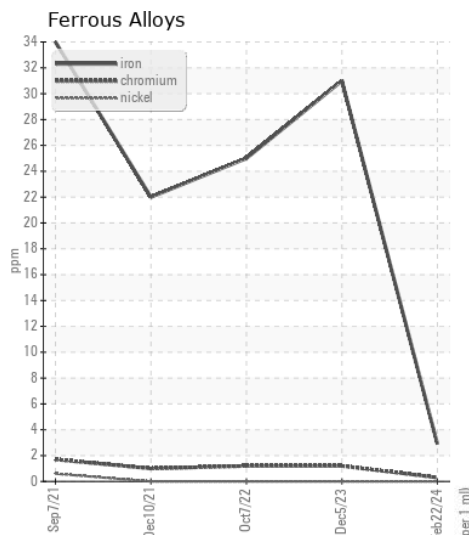
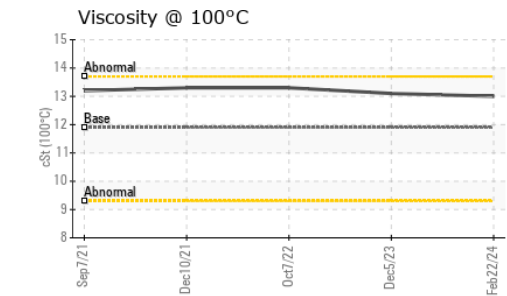
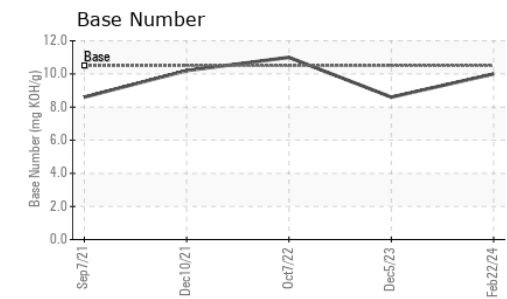
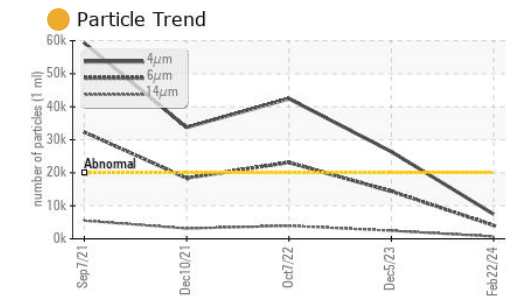
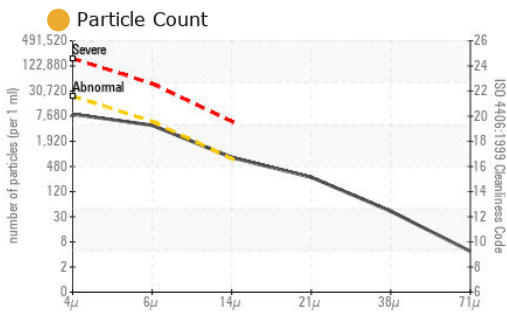
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>13</b>	9	9
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	3	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>0.1</b>	1	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>4.6</b>	8.4	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.0</b>	21.4	25.0
Particles >4µm		ASTM D7647	>20000	<b>7456</b>	▲ 26412	▲ 42413
Particles >6µm		ASTM D7647	>5000	<b>4061</b>	▲ 14388	▲ 23105
Particles >14µm		ASTM D7647	>640	● <b>691</b>	▲ 2449	▲ 3932
Particles >21µm		ASTM D7647	>160	● <b>233</b>	▲ 825	▲ 1325
Particles >38µm		ASTM D7647	>40	● <b>36</b>	▲ 127	▲ 204
Particles >71µm		ASTM D7647	>10	● <b>4</b>	▲ 13	▲ 21
Oil Cleanliness		ISO 4406 (c)	>21/19/16	● <b>20/19/17</b>	▲ 22/21/18	▲ 23/22/19
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>0</b>	5	<1
Boron	ppm	ASTM D5185m		<b>69</b>	80	45
Barium	ppm	ASTM D5185m		<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>43</b>	6	34
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>511</b>	750	571
Calcium	ppm	ASTM D5185m		<b>1553</b>	1387	1733
Phosphorus	ppm	ASTM D5185m		<b>682</b>	1060	802
Zinc	ppm	ASTM D5185m		<b>893</b>	1232	966
Sulfur	ppm	ASTM D5185m		<b>2317</b>	3651	3107
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.8</b>	13.7	22.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	<b>10.0</b>	8.6	11.0
Visc @ 100°C	cSt	ASTM D445	11.9	<b>13.0</b>	13.1	13.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0902894 **Received** : 26 Feb 2024  
**Lab Number** : 06100034 **Tested** : 28 Feb 2024  
**Unique Number** : 10898264 **Diagnosed** : 28 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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