



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**846-4386**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0016913</b>	RPL0011328	RPL0011410
Sample Date		Client Info		<b>28 Dec 2023</b>	29 Sep 2023	14 Jul 2023
Machine Age	mls	Client Info		<b>181416</b>	174258	169116
Oil Age	mls	Client Info		<b>31855</b>	24698	19556
Filter Age	mls	Client Info		<b>31855</b>	24698	19556
Oil Changed		Client Info		<b>Changed</b>	Not Changd	N/A
Filter Changed		Client Info		<b>Changed</b>	Not Changd	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>49</b>	36	38
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	3	3
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>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>8</b>	7	8
Lead	ppm	ASTM D5185m	>40	<b>15</b>	12	11
Copper	ppm	ASTM D5185m	>330	<b>2</b>	2	2
Tin	ppm	ASTM D5185m	>15	<b>2</b>	2	2
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

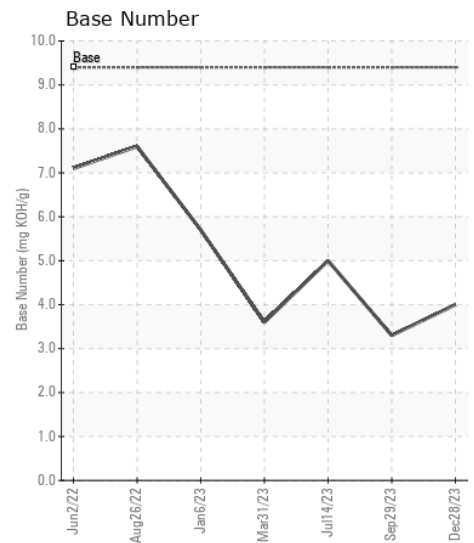
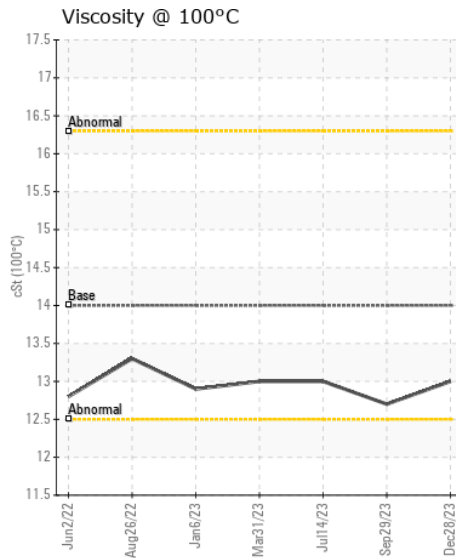
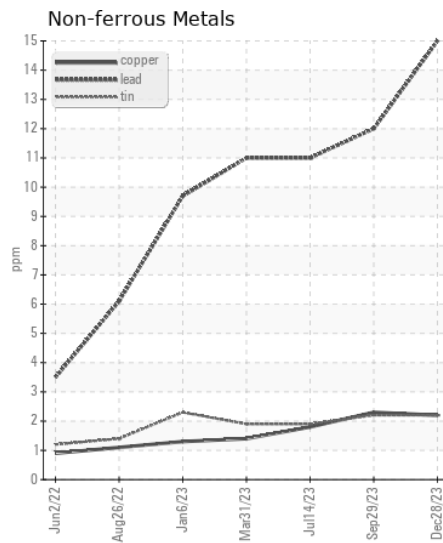
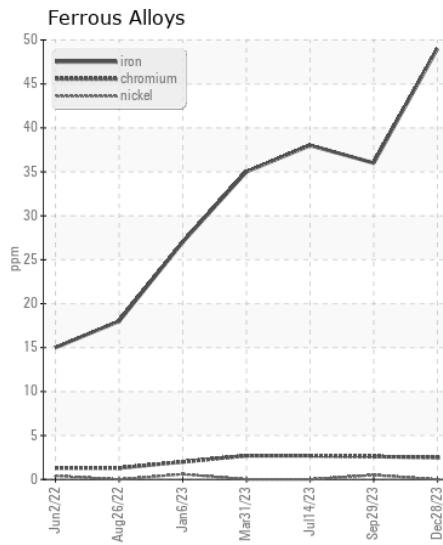
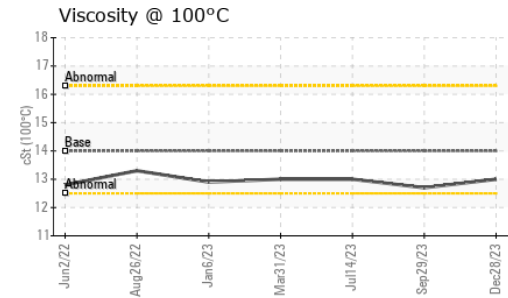
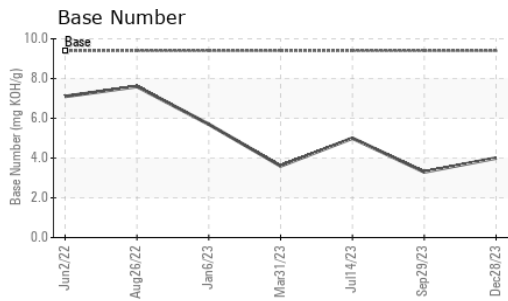
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>10</b>	9	9
Potassium	ppm	ASTM D5185m	>20	<b>25</b>	20	20
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>0.7</b>	0.6	1.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.6</b>	12.9	13.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>29.5</b>	27.6	27.9
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>5</b>	5	5
Boron	ppm	ASTM D5185m	0	<b>20</b>	21	28
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>34</b>	33	37
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	1
Magnesium	ppm	ASTM D5185m	0	<b>578</b>	537	584
Calcium	ppm	ASTM D5185m		<b>1722</b>	1626	1847
Phosphorus	ppm	ASTM D5185m		<b>702</b>	701	755
Zinc	ppm	ASTM D5185m		<b>991</b>	911	953
Sulfur	ppm	ASTM D5185m		<b>2434</b>	2369	3022
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>31.5</b>	29.1	28.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>4.0</b>	▲ 3.3	5.0
Visc @ 100°C	cSt	ASTM D445	14	<b>13.0</b>	12.7	13.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0016913 **Received** : 11 Jan 2024  
**Lab Number** : 06057816 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 10829198 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

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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)