



# OIL ANALYSIS REPORT

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

Machine Id  
**846-5112**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- QTS)**

## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0016047</b>	RPL0015073	---
Sample Date		Client Info		<b>19 Feb 2024</b>	31 Aug 2023	---
Machine Age	mls	Client Info		<b>42454</b>	18899	---
Oil Age	mls	Client Info		<b>42454</b>	18899	---
Filter Age	mls	Client Info		<b>42454</b>	18899	---
Oil Changed		Client Info		<b>Changed</b>	Not Changed	---
Filter Changed		Client Info		<b>Changed</b>	Not Changed	---
Sample Status				<b>ATTENTION</b>	ATTENTION	---

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	<b>50</b>	29	---
Chromium	ppm	ASTM D5185m	>20	<b>4</b>	3	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185m	>20	<b>14</b>	14	---
Lead	ppm	ASTM D5185m	>40	<b>9</b>	3	---
Copper	ppm	ASTM D5185m	>330	<b>24</b>	28	---
Tin	ppm	ASTM D5185m	>15	<b>4</b>	3	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

There is no indication of any contamination in the oil.

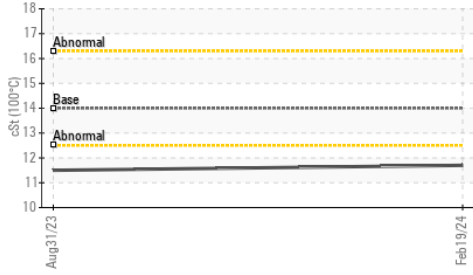
Silicon	ppm	ASTM D5185m	>25	<b>33</b>	43	---
Potassium	ppm	ASTM D5185m	>20	<b>61</b>	53	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	0.7	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	%	*ASTM D2982		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.7</b>	9.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.3</b>	20.5	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

## FLUID CONDITION

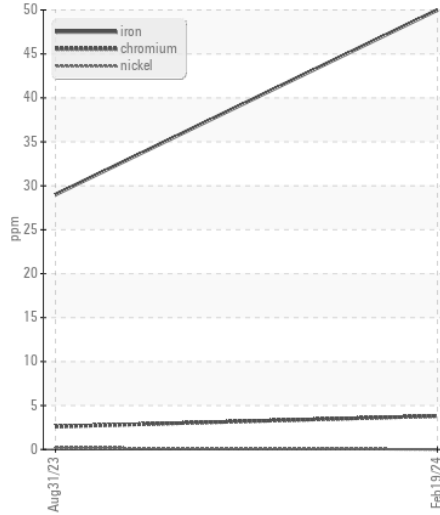
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		<b>6</b>	5	---
Boron	ppm	ASTM D5185m	0	<b>40</b>	67	---
Barium	ppm	ASTM D5185m	0	<b>3</b>	<1	---
Molybdenum	ppm	ASTM D5185m	0	<b>34</b>	28	---
Manganese	ppm	ASTM D5185m		<b>5</b>	5	---
Magnesium	ppm	ASTM D5185m	0	<b>676</b>	682	---
Calcium	ppm	ASTM D5185m		<b>1278</b>	1353	---
Phosphorus	ppm	ASTM D5185m		<b>735</b>	764	---
Zinc	ppm	ASTM D5185m		<b>926</b>	916	---
Sulfur	ppm	ASTM D5185m		<b>2567</b>	3100	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.8</b>	16.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>5.0</b>	6.4	---
Visc @ 100°C	cSt	ASTM D445	14	<b>11.7</b>	11.5	---

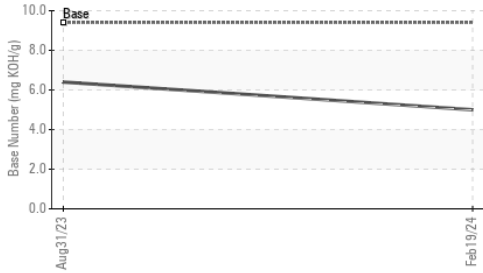
● Viscosity @ 100°C



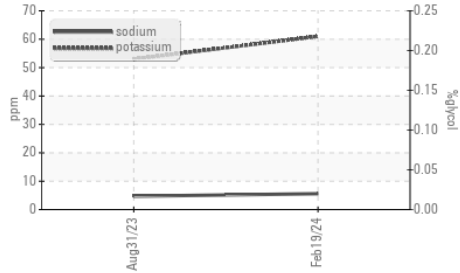
Ferrous Alloys



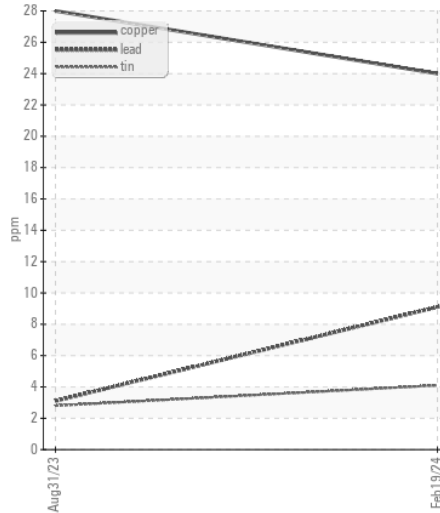
Base Number



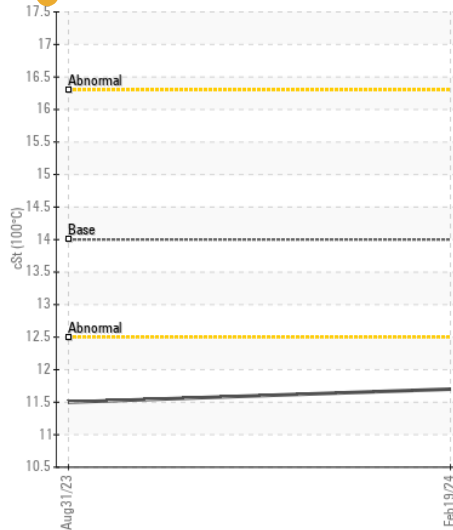
Glycol Contamination



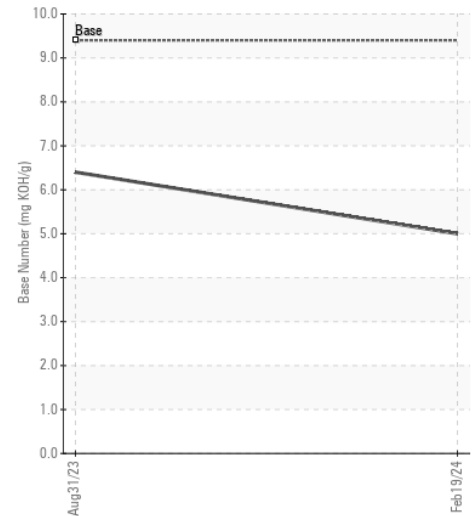
Non-ferrous Metals



● Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : RPL0016047

Lab Number : 06105785

Unique Number : 10909282

Test Package : FLEET ( Additional Tests: Glycol )

Received : 01 Mar 2024

Tested : 05 Mar 2024

Diagnosed : 05 Mar 2024 - Jonathan Hester

RTL PACLEASE - 7007 - Fontana

3121 South Riverside

Bloomington, CA

US 92316

Contact: Rudy Trevizo

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F:

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)