



# OIL ANALYSIS REPORT

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

Machine Id  
**184**  
 Component  
**Diesel Engine**  
 Fluid  
**VALVOLINE PREMIUM BLUE 2000 15W40 (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0811879</b>	WC0863940	---
Sample Date		Client Info		<b>30 Mar 2024</b>	19 Jan 2024	---
Machine Age	mls	Client Info		<b>0</b>	0	---
Oil Age	mls	Client Info		<b>15000</b>	15000	---
Filter Age	mls	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>77</b>	51	---
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	1	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	4	---
Lead	ppm	ASTM D5185m	>40	<b>10</b>	4	---
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	---
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

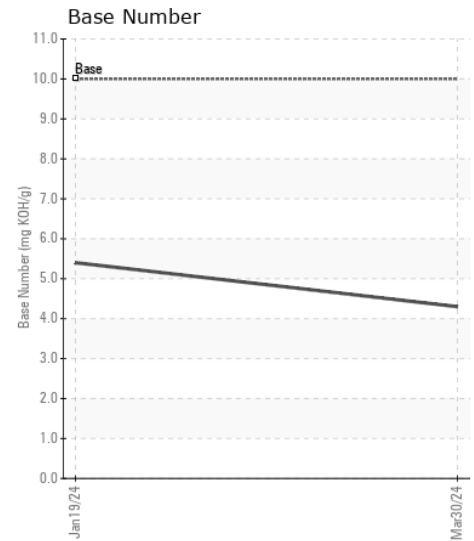
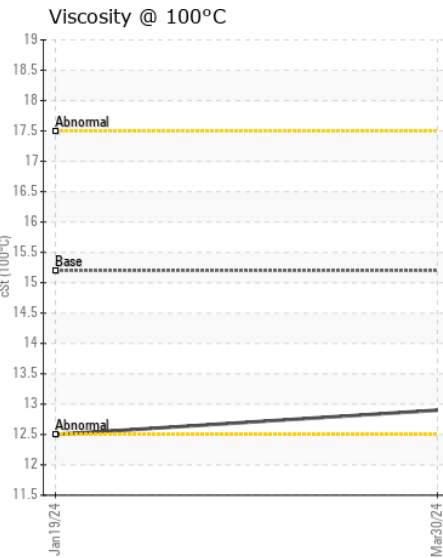
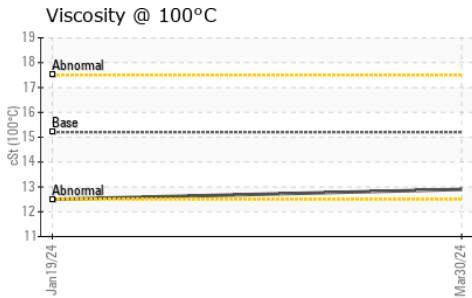
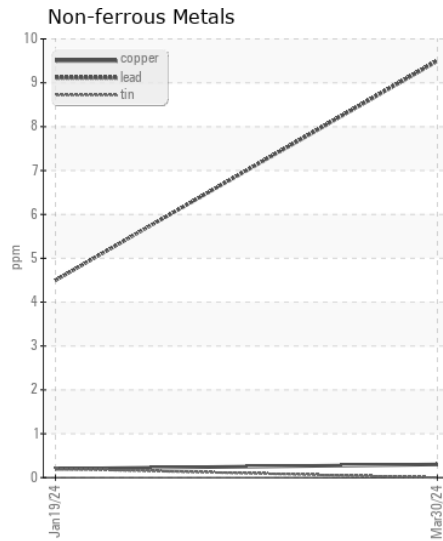
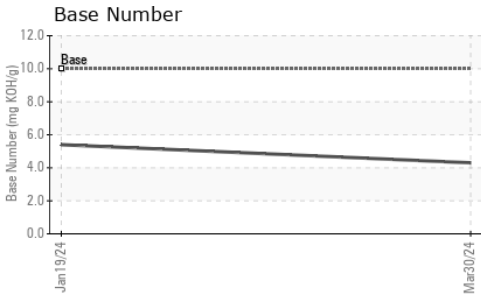
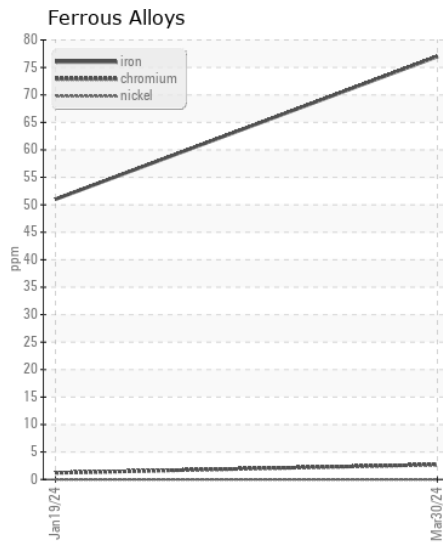
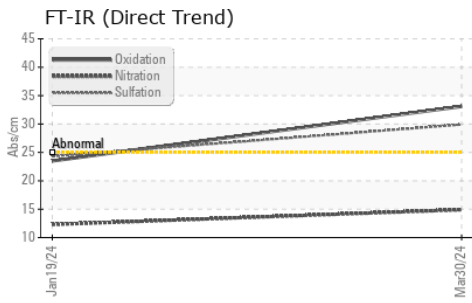
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	6	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>1.2</b>	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>14.9</b>	12.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>29.9</b>	24.3	---
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 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>4</b>	<1	---
Boron	ppm	ASTM D5185m		<b>26</b>	30	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>69</b>	86	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>824</b>	748	---
Calcium	ppm	ASTM D5185m		<b>1377</b>	1254	---
Phosphorus	ppm	ASTM D5185m		<b>812</b>	696	---
Zinc	ppm	ASTM D5185m		<b>963</b>	893	---
Sulfur	ppm	ASTM D5185m		<b>2731</b>	2194	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>33.1</b>	23.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.0	<b>4.3</b>	5.4	---
Visc @ 100°C	cSt	ASTM D445	15.2	<b>12.9</b>	12.5	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0811879  
**Lab Number** : 06159669  
**Unique Number** : 10995092  
**Test Package** : FLEET  
**Received** : 24 Apr 2024  
**Tested** : 25 Apr 2024  
**Diagnosed** : 26 Apr 2024 - Sean Felton

**TALLEN TRANSPORT**  
 262 COUNTY ROAD 580  
 MADISONVILLE, TN  
 US 37303  
 Contact: COBY JOHNSON  
 tallentransport@gmail.com

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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F: