



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**7125**  
Component  
**Diesel Engine**  
Fluid  
**SHELL ROTELLA T 15W40 (--- GAL)**

## 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>WC0828989</b>	PCA0076240	---
Sample Date		Client Info		<b>13 Nov 2023</b>	15 Dec 2022	---
Machine Age	mls	Client Info		<b>0</b>	75533	---
Oil Age	mls	Client Info		<b>20000</b>	0	---
Filter Age	mls	Client Info		<b>20000</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>73</b>	▲ 101	---
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	4	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>10</b>	7	---
Lead	ppm	ASTM D5185m	>40	<b>19</b>	▲ 45	---
Copper	ppm	ASTM D5185m	>330	<b>4</b>	7	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</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

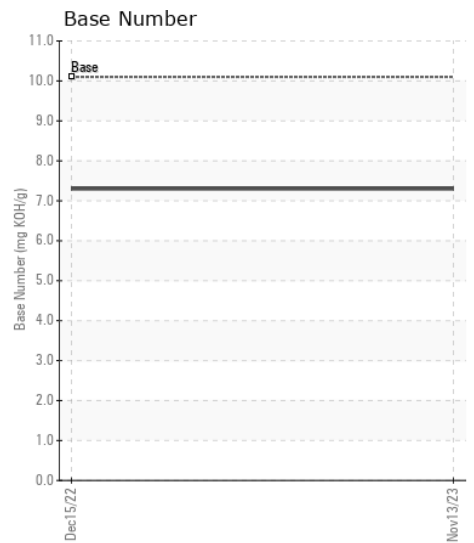
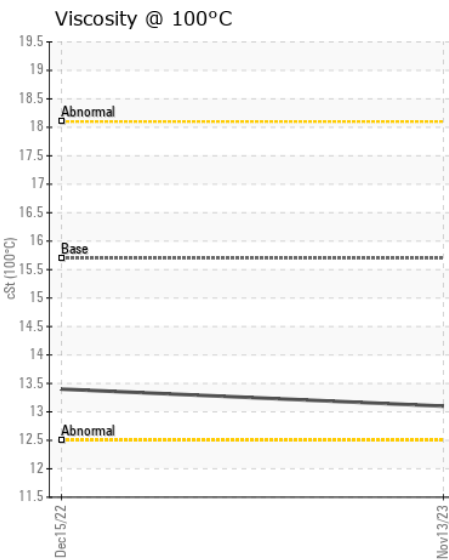
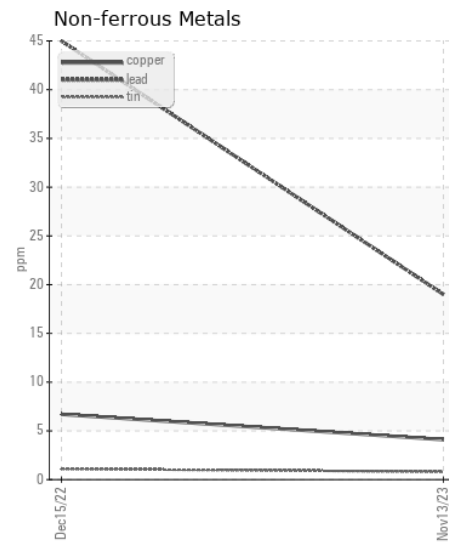
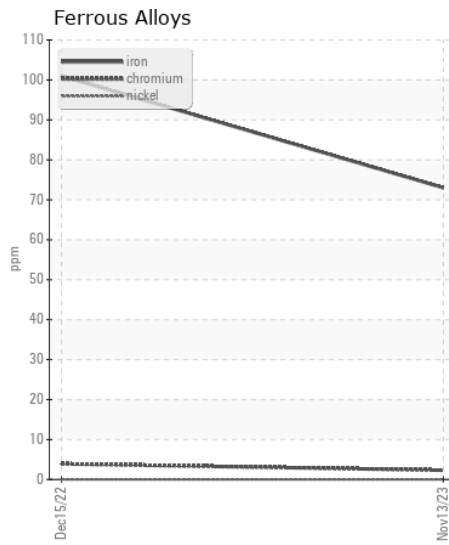
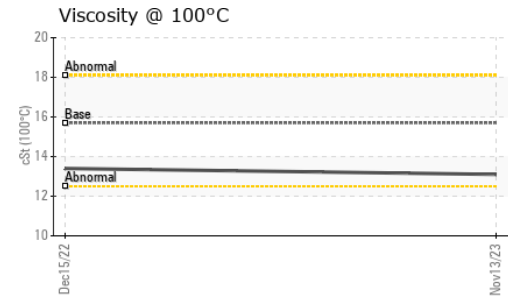
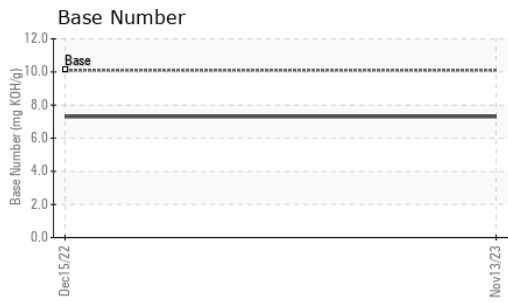
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>14</b>	18	---
Potassium	ppm	ASTM D5185m	>20	<b>22</b>	3	---
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>0.8</b>	1	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.0</b>	12.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.2</b>	26.5	---
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 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>2</b>	2	---
Boron	ppm	ASTM D5185m	316	<b>187</b>	151	---
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	3	---
Molybdenum	ppm	ASTM D5185m	1.2	<b>118</b>	121	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	---
Magnesium	ppm	ASTM D5185m	24	<b>658</b>	641	---
Calcium	ppm	ASTM D5185m	2292	<b>1611</b>	1633	---
Phosphorus	ppm	ASTM D5185m	1064	<b>714</b>	706	---
Zinc	ppm	ASTM D5185m	1160	<b>848</b>	897	---
Sulfur	ppm	ASTM D5185m	4996	<b>2339</b>	2569	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.5</b>	23.0	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	<b>7.3</b>	7.3	---
Visc @ 100°C	cSt	ASTM D445	15.7	<b>13.1</b>	13.4	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0828989 **Received** : 18 Jan 2024  
**Lab Number** : 06064730 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10836112 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**Ergon Trucking Inc. - MAR605**  
 35020 State Route 7  
 Marietta, OH  
 US 45768-5236  
 Contact: JASON JULIAN

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)

T:  
F: