



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**OKLAHOMA/012/UNKNOWN**  
 Machine Id  
**86.101 [OKLAHOMA^012^UNKNOWN]**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- 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>WC0935115</b>	WC0713162	---
Sample Date		Client Info		<b>13 Jun 2024</b>	10 Oct 2022	---
Machine Age	hrs	Client Info		<b>12377</b>	1027	---
Oil Age	hrs	Client Info		<b>1027</b>	250	---
Filter Age	hrs	Client Info		<b>1027</b>	250	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>70</b>	65	---
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	2	---
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	2	---
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	5	---
Lead	ppm	ASTM D5185m	>40	<b>2</b>	9	---
Copper	ppm	ASTM D5185m	>330	<b>8</b>	27	---
Tin	ppm	ASTM D5185m	>15	<b>0</b>	2	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

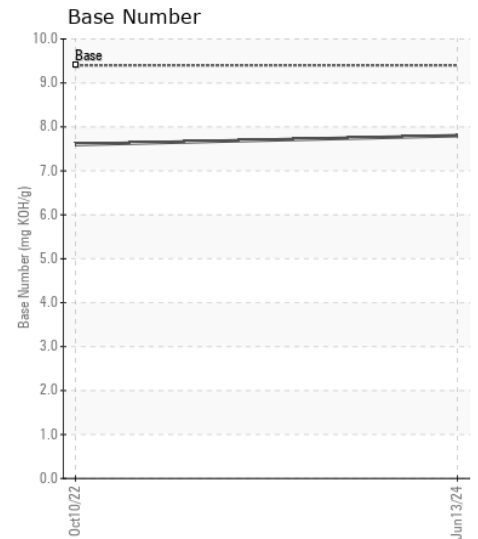
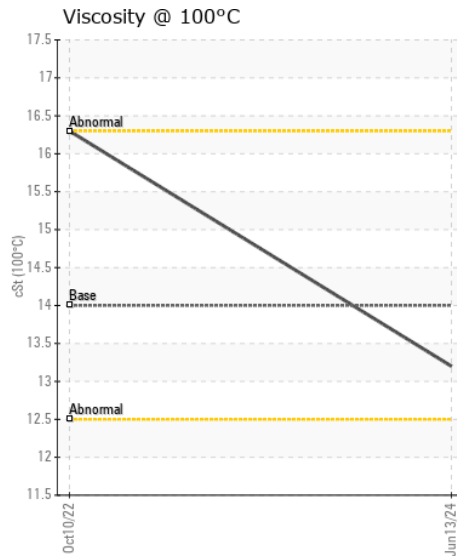
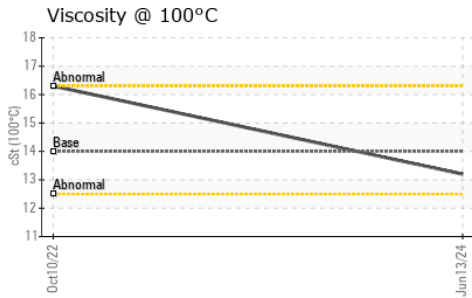
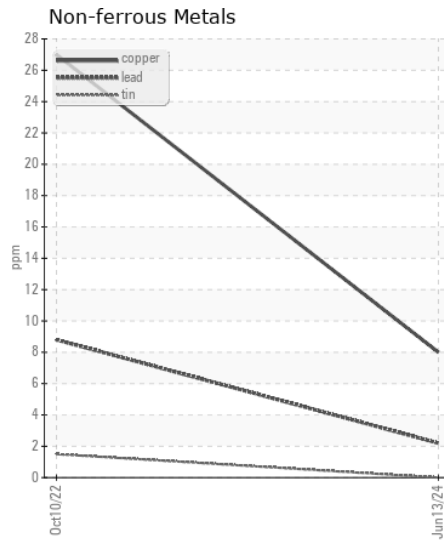
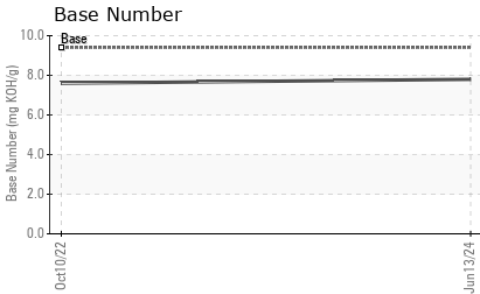
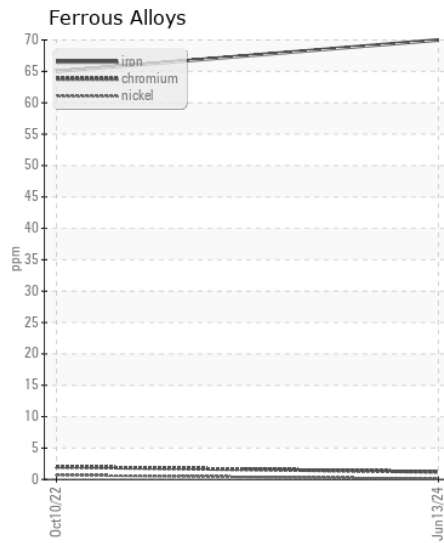
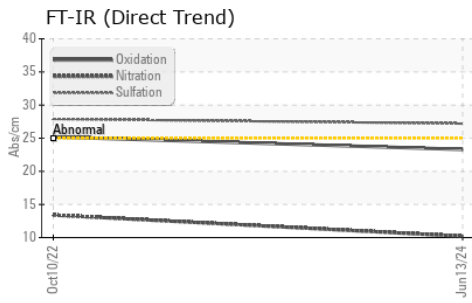
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>11</b>	8	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	---
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>2.3</b>	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.2</b>	13.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>27.2</b>	27.9	---
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>	5	---
Boron	ppm	ASTM D5185m	0	<b>44</b>	9	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	0	<b>42</b>	2	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	---
Magnesium	ppm	ASTM D5185m	0	<b>545</b>	15	---
Calcium	ppm	ASTM D5185m		<b>2007</b>	2558	---
Phosphorus	ppm	ASTM D5185m		<b>835</b>	909	---
Zinc	ppm	ASTM D5185m		<b>996</b>	1253	---
Sulfur	ppm	ASTM D5185m		<b>2852</b>	3625	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.3</b>	25.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>7.8</b>	7.6	---
Visc @ 100°C	cSt	ASTM D445	14	<b>13.2</b>	16.3	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0935115 **Received** : 20 Jun 2024  
**Lab Number** : 06215617 **Tested** : 21 Jun 2024  
**Unique Number** : 11088481 **Diagnosed** : 21 Jun 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: TBN )

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
 Contact: SHAWN SOUTH  
 shawn.south@sherwood.net

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: x:  
 F: x: