



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**KANSAS/44**  
Machine Id  
**87.18L [KANSAS^44]**

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>WC0821539</b>	WC0622758	---
Sample Date		Client Info		<b>20 Feb 2024</b>	05 Nov 2021	---
Machine Age	hrs	Client Info		<b>1586</b>	1178	---
Oil Age	hrs	Client Info		<b>1586</b>	500	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	N/A	---
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	>51	<b>9</b>	4	---
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>31	<b>2</b>	1	---
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>26	<b>1</b>	1	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

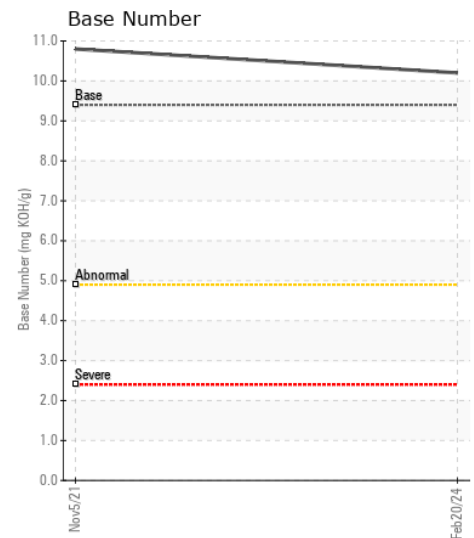
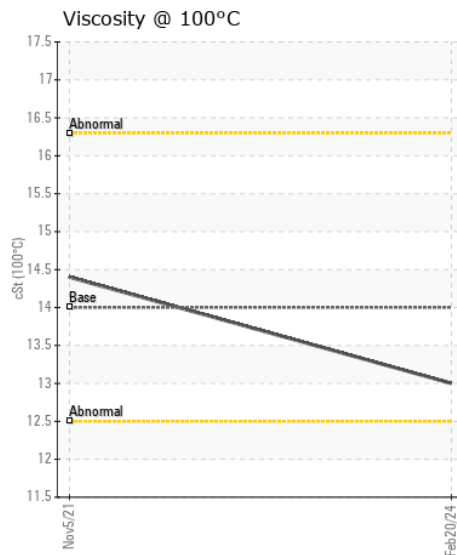
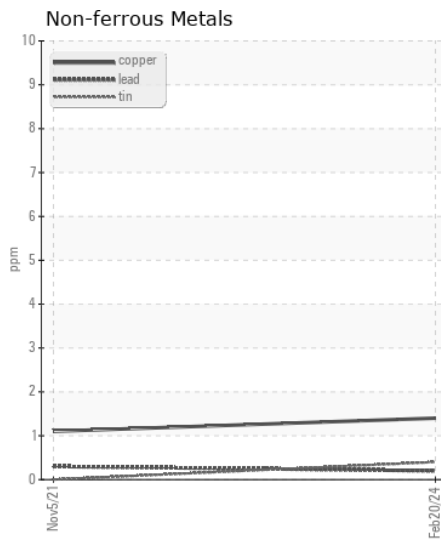
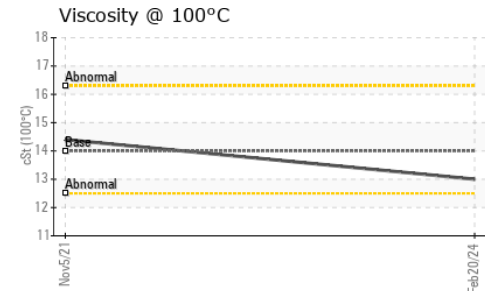
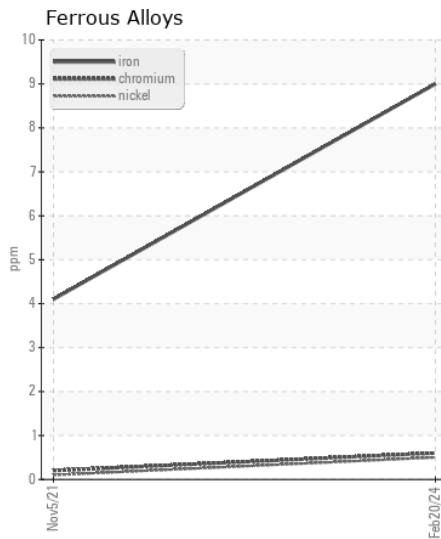
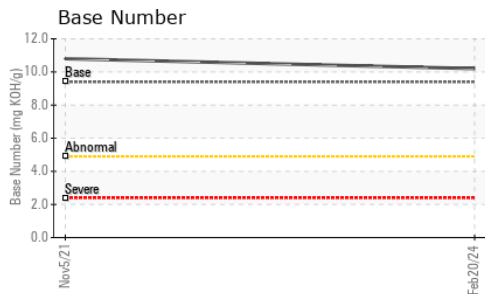
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>7</b>	4	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	---
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.21	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.7	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.5</b>	6.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.5</b>	23.1	---
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	>0.21	<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	>31	<b>2</b>	1	---
Boron	ppm	ASTM D5185m	0	<b>58</b>	6	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	0	<b>44</b>	59	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	0	<b>537</b>	1130	---
Calcium	ppm	ASTM D5185m		<b>1652</b>	1194	---
Phosphorus	ppm	ASTM D5185m		<b>898</b>	1093	---
Zinc	ppm	ASTM D5185m		<b>1004</b>	1246	---
Sulfur	ppm	ASTM D5185m		<b>2750</b>	4413	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.4</b>	19.3	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>10.2</b>	10.8	---
Visc @ 100°C	cSt	ASTM D445	14	<b>13.0</b>	14.4	---



Certificate L2367

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

**Sample No.** : WC0821539

**Lab Number** : 06105773

**Unique Number** : 10909270

**Test Package** : CONST ( Additional Tests: TBN )

**Received** : 01 Mar 2024

**Tested** : 02 Mar 2024

**Diagnosed** : 02 Mar 2024 - Wes Davis

**SHERWOOD CONSTRUCTION CO INC**

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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)