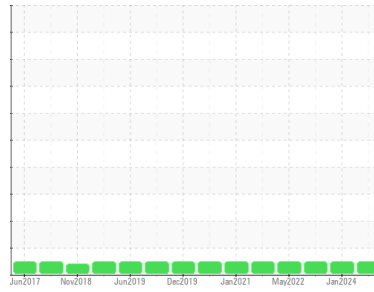




# OIL ANALYSIS REPORT

### Sample Rating Trend



NORMAL



Area

**KANSAS/44/Sh-Bulk Tanks**

Machine Id

**Shop 3 Tanks [KANSAS^44^Sh-Bulk Tanks]**

Component

**1 Diesel Engine**

Fluid

**MOBIL DELVAC 1300 SUPER15W40 (--- GAL)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0918043</b>	WC0862549	WC0746056
Sample Date	Client Info	<b>10 May 2024</b>	03 Jan 2024	17 Jan 2023
Machine Age	hrs	<b>0</b>	0	6927
Oil Age	hrs	<b>0</b>	0	6927
Oil Changed	Client Info	<b>Not Changed</b>	Not Changed	Not Changed
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

### CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method	<b>NEG</b>	NEG	NEG

### WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >100	<b>1</b>	0	1
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>1</b>	2	0
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m >330	<b>0</b>	0	0
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

### ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 0	<b>70</b>	56	65
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>34</b>	32	36
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m 0	<b>460</b>	395	476
Calcium	ppm	ASTM D5185m	<b>1892</b>	1285	1566
Phosphorus	ppm	ASTM D5185m	<b>797</b>	692	723
Zinc	ppm	ASTM D5185m	<b>978</b>	731	907
Sulfur	ppm	ASTM D5185m	<b>3482</b>	2199	2777

### CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	<b>7</b>	5	8
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	2
Potassium	ppm	ASTM D5185m >20	<b>1</b>	<1	2
Water	%	ASTM D6304 >0.2	<b>NEG</b>	NEG	NEG

### INFRA-RED

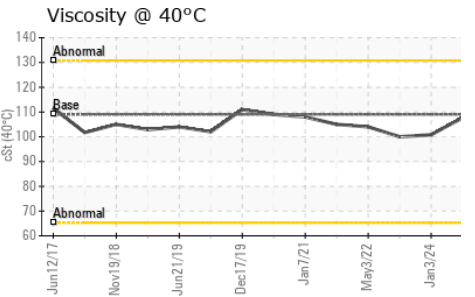
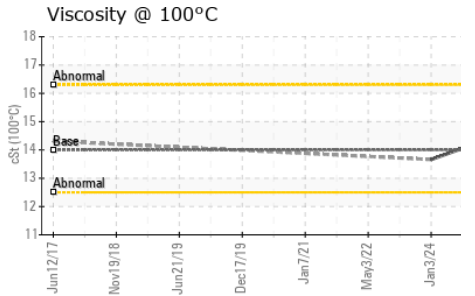
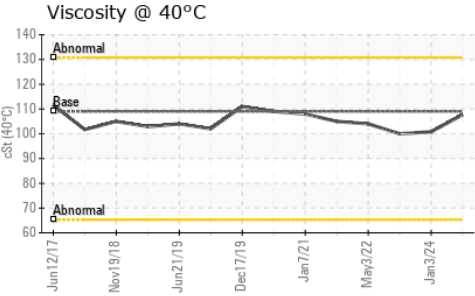
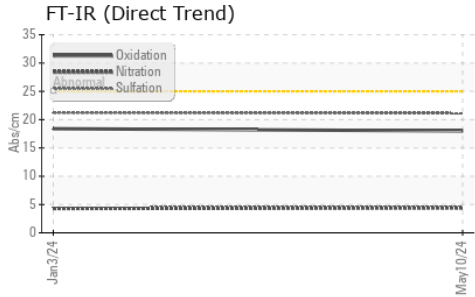
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844 >3	<b>0</b>	0	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>4.4</b>	4.3	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>21.1</b>	21.2	---

### FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>18.0</b>	18.4	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.4	<b>10.3</b>	9.8	---



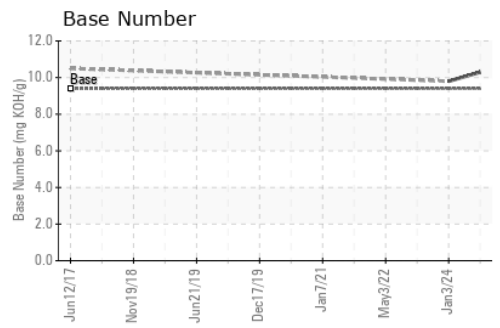
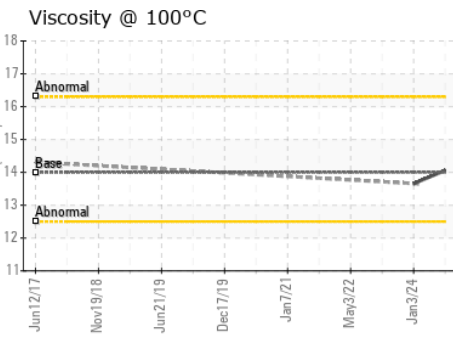
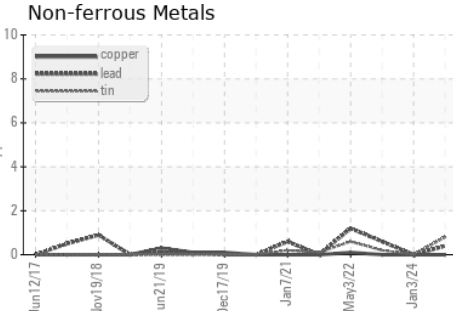
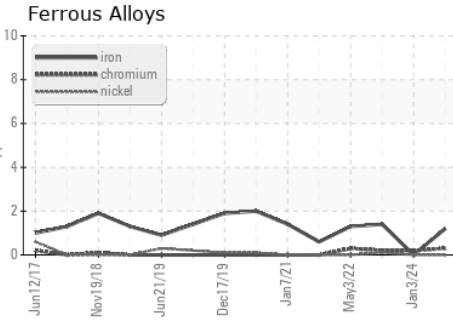
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	109	107.7	100.8
Visc @ 100°C	cSt	ASTM D445	14	14.06	13.66
Viscosity Index (VI)	Scale	ASTM D2270	129	131	135

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0918043      **Received** : 17 May 2024  
**Lab Number** : **06183256**      **Tested** : 14 Jun 2024  
**Unique Number** : 11034582      **Diagnosed** : 14 Jun 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: KF, KV40, TBN, VI )

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
 Contact: DOUG KING  
 doug.king@sherwood.net  
 T: (316)617-3161  
 F: x:

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)