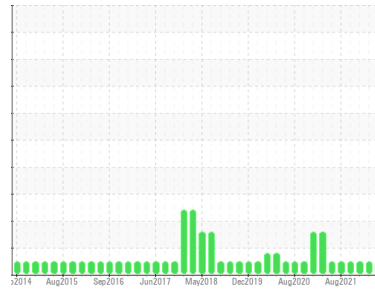




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**KANSAS/44**  
Machine Id  
**09.05W [KANSAS^44]**  
Component  
**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 suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0781193</b>	WC0821548	WC0621182
Sample Date	Client Info		<b>16 Oct 2023</b>	06 Jul 2023	21 Mar 2022
Machine Age	mls	Client Info	<b>0</b>	625510	23446
Oil Age	mls	Client Info	<b>0</b>	23446	22844
Oil Changed	Client Info		<b>Changed</b>	Changed	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>44</b>	20	18
Chromium	ppm	ASTM D5185m >6	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m >4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m >2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >30	<b>2</b>	6	2
Lead	ppm	ASTM D5185m >10	<b>7</b>	10	1
Copper	ppm	ASTM D5185m >150	<b>5</b>	7	2
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	2	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>53</b>	44	57
Barium	ppm	ASTM D5185m 0	<b>6</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>45</b>	41	40
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	3	<1
Magnesium	ppm	ASTM D5185m 0	<b>510</b>	599	566
Calcium	ppm	ASTM D5185m	<b>1799</b>	1935	1813
Phosphorus	ppm	ASTM D5185m	<b>784</b>	851	813
Zinc	ppm	ASTM D5185m	<b>957</b>	1083	1046
Sulfur	ppm	ASTM D5185m	<b>2918</b>	3400	2084

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>6</b>	7	5
Sodium	ppm	ASTM D5185m	<b>0</b>	3	2
Potassium	ppm	ASTM D5185m >20	<b>2</b>	8	2

## INFRA-RED

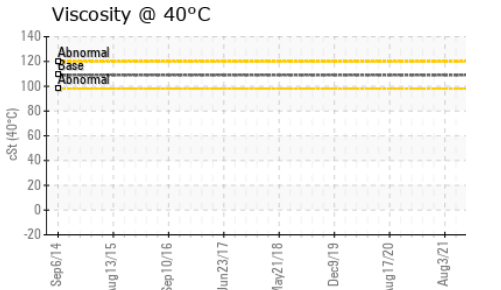
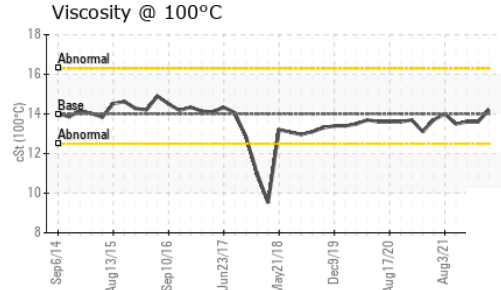
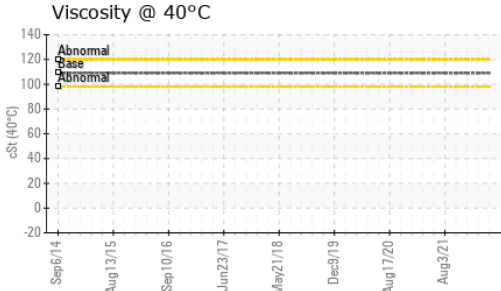
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.3</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.6</b>	10.4	9.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>26.2</b>	25.6	25.5

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>29.0</b>	27.5	25.4
Base Number (BN)	mg KOH/g	ASTM D2896 9.4	<b>9.0</b>	9.2	11.0



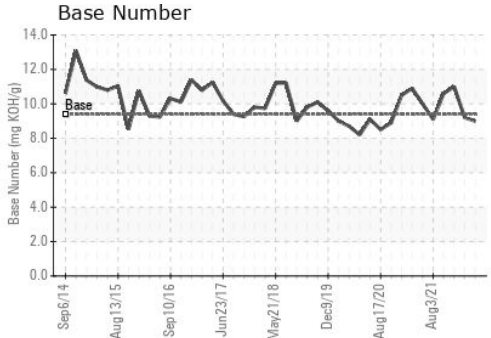
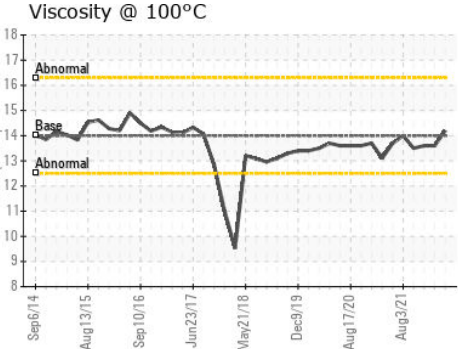
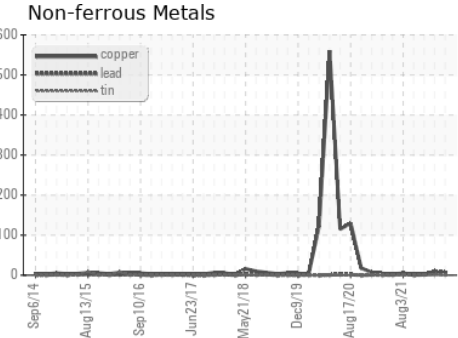
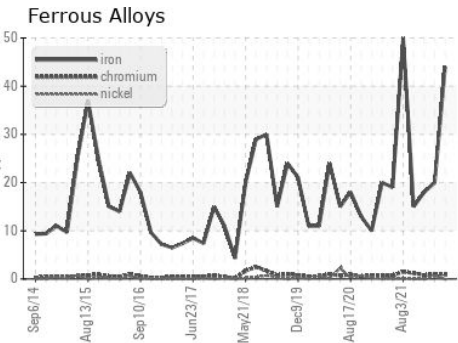
# OIL ANALYSIS REPORT



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 @ 100°C	cSt	ASTM D445 14	<b>14.2</b>	13.6	13.6

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0781193 **Received** : 14 Nov 2023  
**Lab Number** : 06006730 **Diagnosed** : 15 Nov 2023  
**Unique Number** : 10740492 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: KV40, TBN )

**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)