

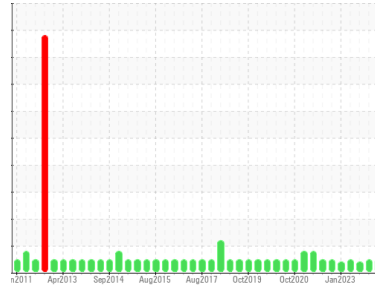


# OIL ANALYSIS REPORT



Area  
**OKLAHOMA/3/EG - LOADER**  
 Machine Id  
**48.81L [OKLAHOMA^3^EG - LOADER]**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- GAL)**

Sample Rating Trend



**NORMAL**



## 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>WC0834059</b>	WC0800744	WC0670239
Sample Date	Client Info		<b>05 Aug 2023</b>	09 May 2023	03 Mar 2023
Machine Age	hrs	Client Info	<b>1353</b>	891	629
Oil Age	hrs	Client Info	<b>297</b>	297	300
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	MARGINAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	1.6
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>29</b>	18	18
Chromium	ppm	ASTM D5185m >20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m >2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m >2	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>&lt;1</b>	<1	1
Lead	ppm	ASTM D5185m >40	<b>2</b>	1	2
Copper	ppm	ASTM D5185m >330	<b>14</b>	12	26
Tin	ppm	ASTM D5185m >15	<b>2</b>	2	3
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>43</b>	58	56
Barium	ppm	ASTM D5185m 0	<b>2</b>	2	0
Molybdenum	ppm	ASTM D5185m 0	<b>44</b>	42	41
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 0	<b>482</b>	479	478
Calcium	ppm	ASTM D5185m	<b>1757</b>	1651	1651
Phosphorus	ppm	ASTM D5185m	<b>759</b>	744	714
Zinc	ppm	ASTM D5185m	<b>924</b>	887	884
Sulfur	ppm	ASTM D5185m	<b>2713</b>	2574	2933

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>9</b>	12	16
Sodium	ppm	ASTM D5185m	<b>0</b>	1	3
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1

## INFRA-RED

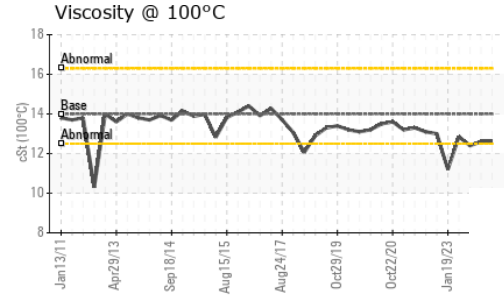
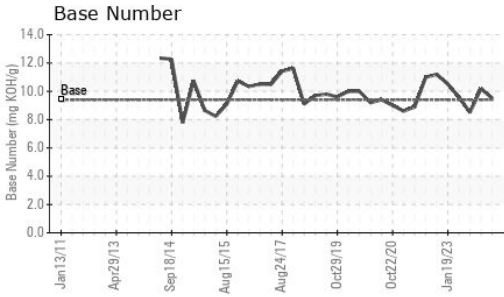
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.5</b>	0.3	0.3
Nitration	Abs/cm	*ASTM D7624 >20	<b>7.3</b>	6.9	7.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>23.0</b>	22.8	22.7

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>20.5</b>	20.4	20.1
Base Number (BN)	mg KOH/g	ASTM D2896 9.4	<b>9.5</b>	10.2	8.5



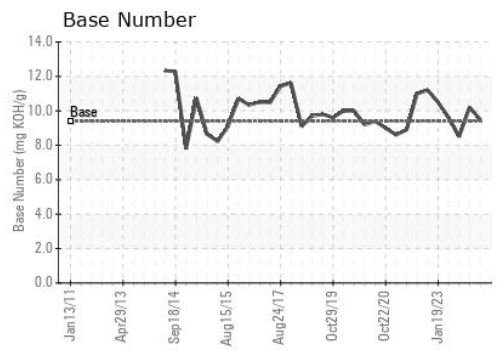
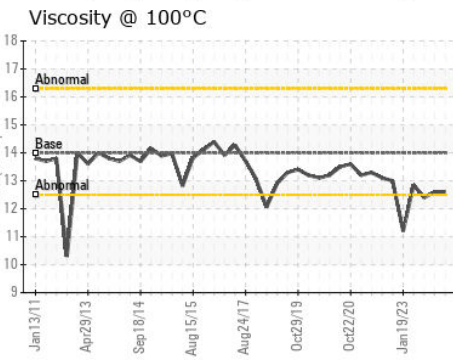
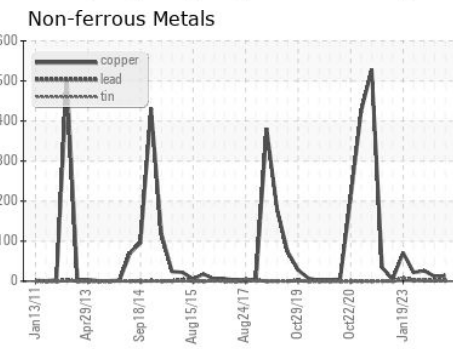
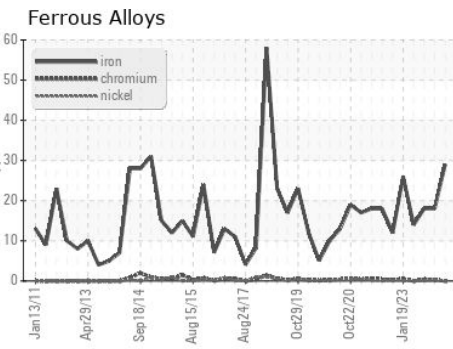
# OIL ANALYSIS REPORT



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>12.6</b>	12.6	▲ 12.4

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0834059 **Received** : 14 Aug 2023  
**Lab Number** : **05923176** **Diagnosed** : 14 Aug 2023  
**Unique Number** : 10603123 **Diagnostician** : Wes Davis  
**Test Package** : CONST ( Additional Tests: 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:

Certificate L2367  
 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)