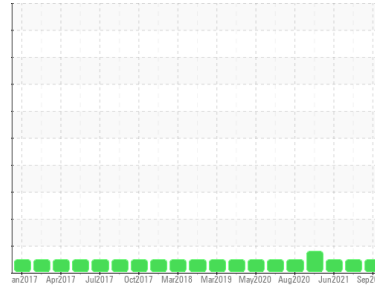




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**OKLAHOMA/3/EG - STATIONARY ENGINE-GEN USE**  
 Machine Id  
**88.95GH [OKLAHOMA^3^EG - STATIONARY ENGINE-GEN USE]**  
 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>WC0834104</b>	WC0800828	WC0590141	
Sample Date	Client Info	<b>27 Sep 2023</b>	21 Mar 2023	17 Jun 2021	
Machine Age	hrs	Client Info	<b>16170</b>	15867	11281
Oil Age	hrs	Client Info	<b>15867</b>	11281	1227
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>34</b>	62	46
Chromium	ppm ASTM D5185m >20	<b>&lt;1</b>	1	<1
Nickel	ppm ASTM D5185m >4	<b>&lt;1</b>	<1	<1
Titanium	ppm ASTM D5185m	<b>0</b>	<1	<1
Silver	ppm ASTM D5185m >3	<b>0</b>	0	<1
Aluminum	ppm ASTM D5185m >20	<b>3</b>	4	0
Lead	ppm ASTM D5185m >40	<b>2</b>	7	23
Copper	ppm ASTM D5185m >330	<b>3</b>	<1	1
Tin	ppm ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Antimony	ppm ASTM D5185m	<b>---</b>	---	0
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>76</b>	48	46
Barium	ppm ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 0	<b>46</b>	47	25
Manganese	ppm ASTM D5185m	<b>2</b>	2	<1
Magnesium	ppm ASTM D5185m 0	<b>551</b>	558	519
Calcium	ppm ASTM D5185m	<b>1724</b>	1840	1395
Phosphorus	ppm ASTM D5185m	<b>780</b>	765	651
Zinc	ppm ASTM D5185m	<b>971</b>	995	777
Sulfur	ppm ASTM D5185m	<b>2627</b>	2554	1920

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>9</b>	7	6
Sodium	ppm ASTM D5185m	<b>6</b>	4	2
Potassium	ppm ASTM D5185m >20	<b>4</b>	0	<1

## INFRA-RED

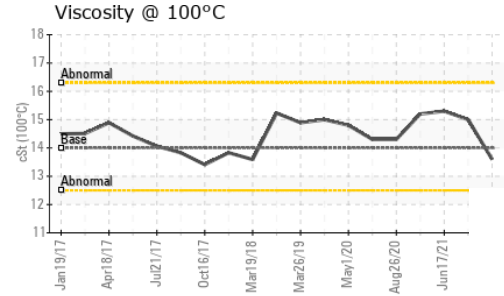
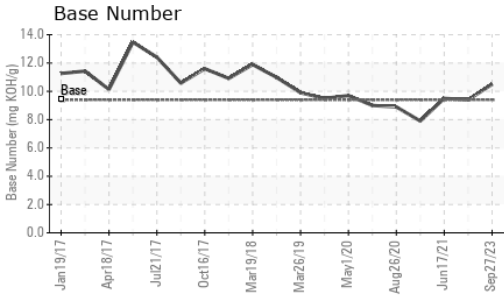
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>1.5</b>	1.9	1.7
Nitration	Abs/cm *ASTM D7624 >20	<b>7.8</b>	11.3	11.4
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>23.1</b>	27.0	27.4

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>19.5</b>	24.4	21.9
Base Number (BN)	mg KOH/g ASTM D2896 9.4	<b>10.5</b>	9.4	9.5



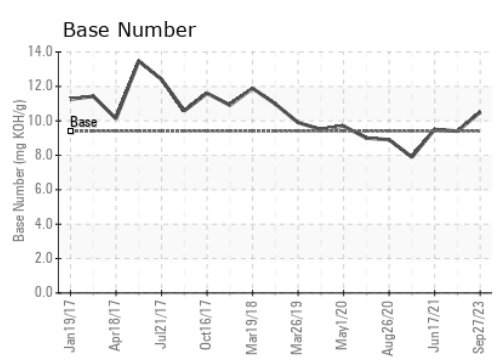
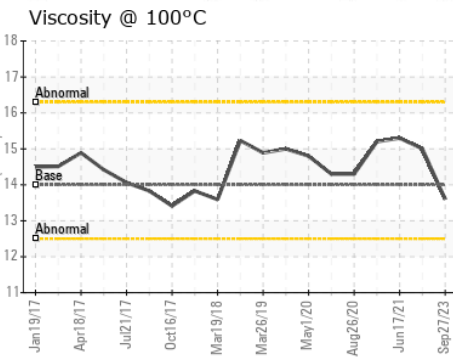
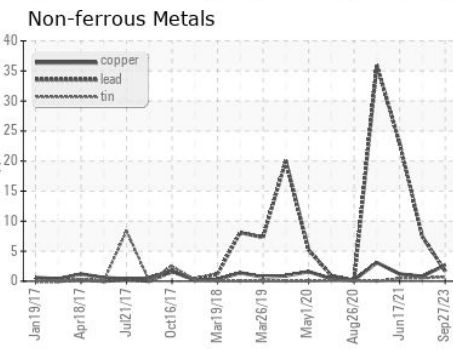
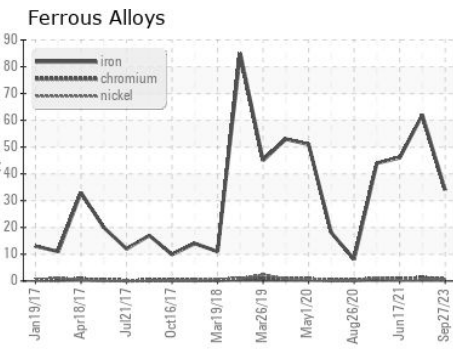
# OIL ANALYSIS REPORT



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>13.6</b>	15.0	15.3

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0834104 **Received** : 02 Oct 2023  
**Lab Number** : **05966092** **Diagnosed** : 03 Oct 2023  
**Unique Number** : 10672643 **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)