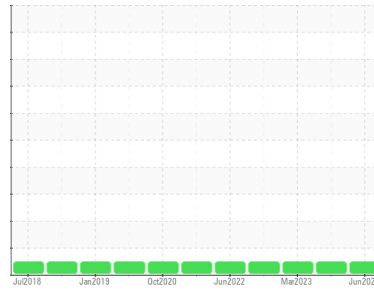




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**OKLAHOMA/102/EG - OTHER SERVICE**

Machine Id

**87.29 [OKLAHOMA^102^EG - OTHER SERVICE]**

Component

**Diesel Engine**

Fluid

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: 2766 hours )

### 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>WC0925153</b>	WC0887021	WC0792440
Sample Date	Client Info		<b>20 Jun 2024</b>	05 Mar 2024	05 Mar 2023
Machine Age	days	Client Info	<b>2766</b>	2175	2323
Oil Age	days	Client Info	<b>2766</b>	215	223
Oil Changed	Client Info		<b>N/A</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >90	<b>30</b>	30	12
Chromium	ppm	ASTM D5185m >20	<b>2</b>	1	<1
Nickel	ppm	ASTM D5185m >2	<b>1</b>	0	0
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>4</b>	3	2
Lead	ppm	ASTM D5185m >40	<b>3</b>	<1	0
Copper	ppm	ASTM D5185m >330	<b>2</b>	1	<1
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	0
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>47</b>	47	52
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>43</b>	43	40
Manganese	ppm	ASTM D5185m	<b>1</b>	0	<1
Magnesium	ppm	ASTM D5185m 0	<b>586</b>	506	526
Calcium	ppm	ASTM D5185m	<b>1997</b>	1648	1668
Phosphorus	ppm	ASTM D5185m	<b>848</b>	716	733
Zinc	ppm	ASTM D5185m	<b>1059</b>	902	927
Sulfur	ppm	ASTM D5185m	<b>3331</b>	2474	2650

## CONTAMINANTS

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

## INFRA-RED

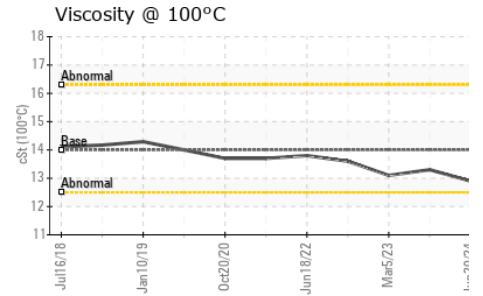
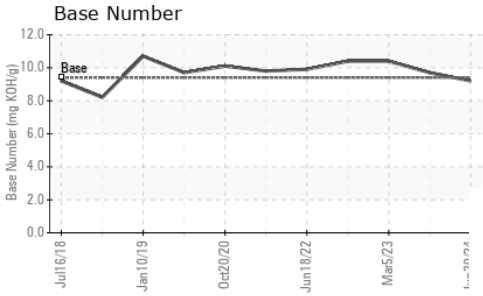
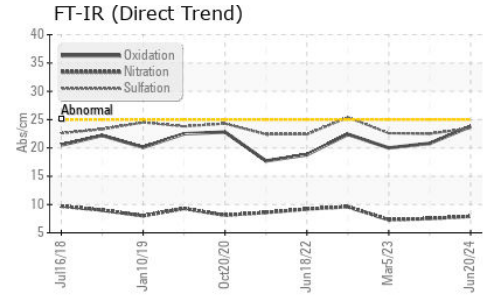
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >6	<b>0.5</b>	0.5	0.4
Nitration	Abs/cm	*ASTM D7624 >20	<b>7.9</b>	7.5	7.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>23.5</b>	22.5	22.6

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>23.8</b>	20.8	20.0
Base Number (BN)	mg KOH/g	ASTM D2896 9.4	<b>9.2</b>	9.7	10.4



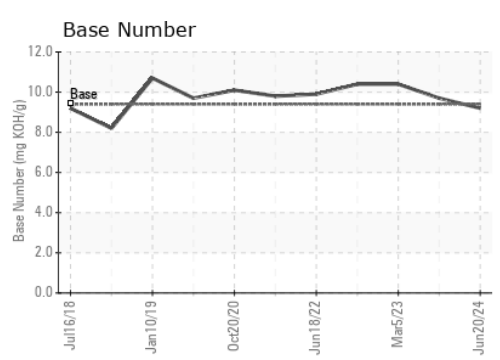
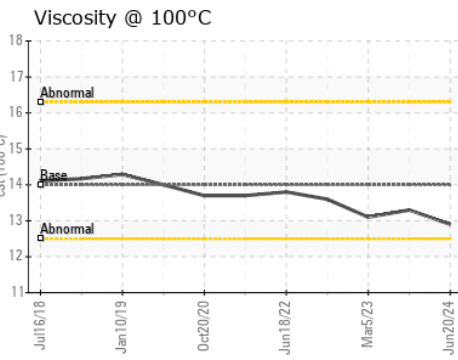
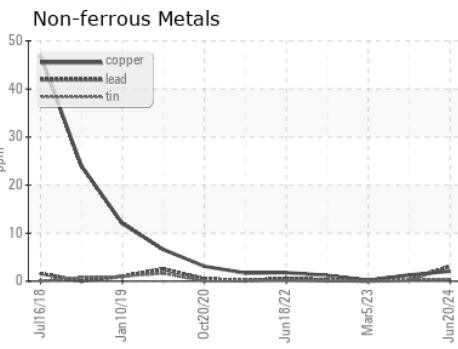
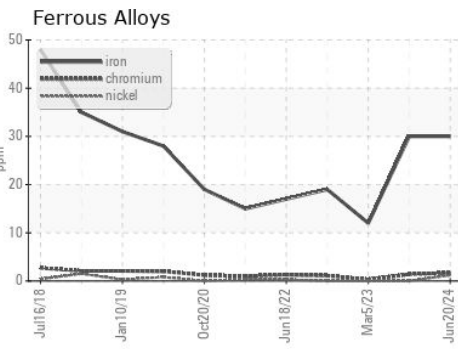
# OIL ANALYSIS REPORT



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>12.9</b>	13.3	13.1

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0925153      **Received** : 24 Jun 2024  
**Lab Number** : **06219061**      **Tested** : 25 Jun 2024  
**Unique Number** : 11097258      **Diagnosed** : 26 Jun 2024 - Jonathan Hester  
**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:

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)