

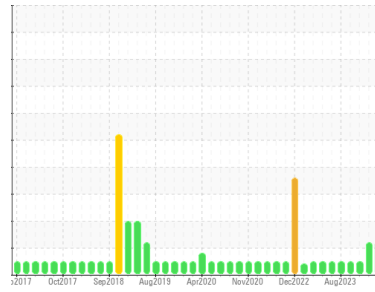


# OIL ANALYSIS REPORT



Area  
**OKLAHOMA/3/EG - LOADER**  
 Machine Id  
**48.85L [OKLAHOMA^3^EG - LOADER]**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- GAL)**

Sample Rating Trend



FUEL



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Light fuel dilution occurring.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0914536</b>	WC0886868	WC0886974
Sample Date	Client Info		<b>01 Apr 2024</b>	20 Feb 2024	02 Jan 2024
Machine Age	hrs	Client Info	<b>32268</b>	31947	31603
Oil Age	hrs	Client Info	<b>321</b>	31603	31209
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	ATTENTION	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
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	>85	<b>28</b>	32	34
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	2	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>2</b>	2	1
Lead	ppm	ASTM D5185m	>25	<b>1</b>	1	<1
Copper	ppm	ASTM D5185m	>350	<b>2</b>	3	3
Tin	ppm	ASTM D5185m	>5	<b>1</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<b>18</b>	16	13
Barium	ppm	ASTM D5185m	0	<b>0</b>	1	0
Molybdenum	ppm	ASTM D5185m	0	<b>43</b>	51	44
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m	0	<b>433</b>	398	408
Calcium	ppm	ASTM D5185m		<b>1795</b>	1724	1817
Phosphorus	ppm	ASTM D5185m		<b>771</b>	685	832
Zinc	ppm	ASTM D5185m		<b>941</b>	870	908
Sulfur	ppm	ASTM D5185m		<b>2757</b>	2567	2707

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>40	<b>7</b>	6	6
Sodium	ppm	ASTM D5185m		<b>53</b>	84	75
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	0
Fuel	%	ASTM D3524	>5	<b>▲ 3.1</b>	<1.0	<1.0

## INFRA-RED

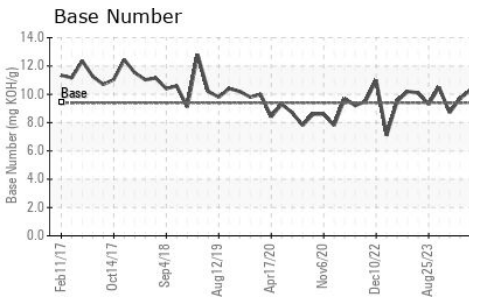
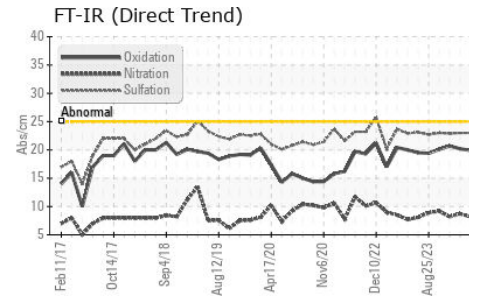
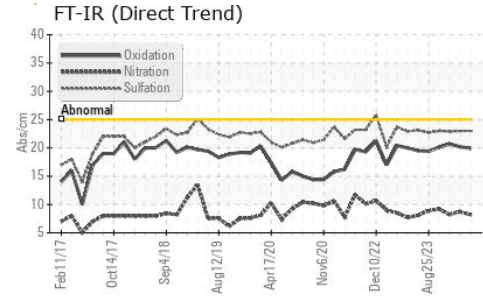
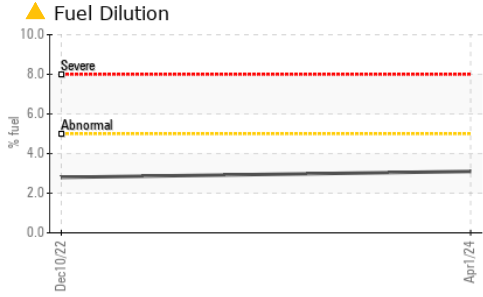
	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	<b>0.7</b>	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.2</b>	8.7	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.0</b>	23.0	22.9

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.9</b>	20.2	20.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>10.3</b>	9.7	8.7



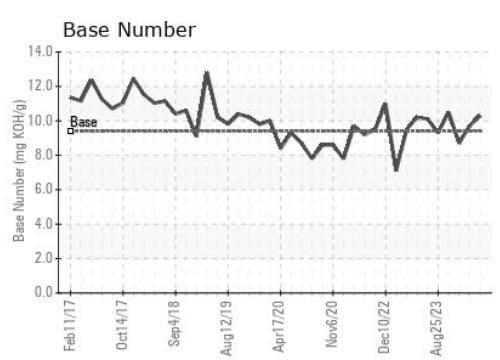
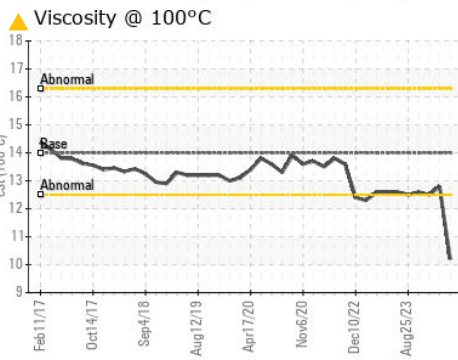
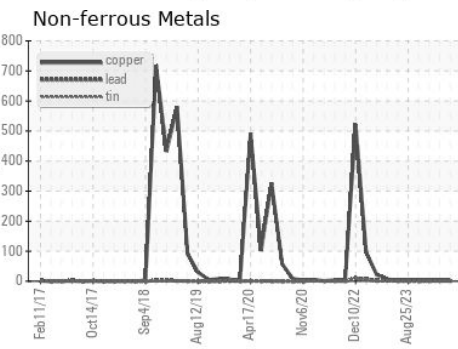
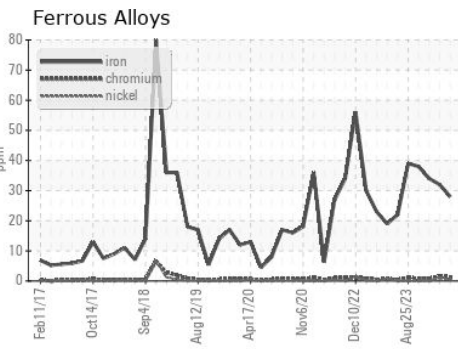
# OIL ANALYSIS REPORT



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	▲ 10.2	12.8	12.5

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0914536      **Received** : 05 Apr 2024  
**Lab Number** : 06139471      **Tested** : 09 Apr 2024  
**Unique Number** : 10964279      **Diagnosed** : 09 Apr 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: FuelDilution, PercentFuel, TBN )

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
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 doug.king@sherwood.net  
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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)