

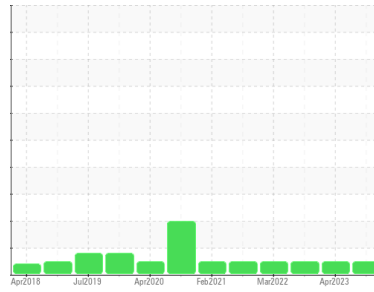


# OIL ANALYSIS REPORT



Area  
**OKLAHOMA/102/EG - SCRAPER**  
 Machine Id  
**76.32L [OKLAHOMA^102^EG - SCRAPER]**  
 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>WC0908773</b>	WC0792448	WC0758703
Sample Date	Client Info		<b>01 Apr 2024</b>	28 Apr 2023	16 Dec 2022
Machine Age	hrs	Client Info	<b>5620</b>	5145	4829
Oil Age	hrs	Client Info	<b>475</b>	445	453
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
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 >75	<b>32</b>	57	24
Chromium	ppm	ASTM D5185m >4	<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>	<1	0
Aluminum	ppm	ASTM D5185m >54	<b>5</b>	2	3
Lead	ppm	ASTM D5185m >20	<b>2</b>	3	1
Copper	ppm	ASTM D5185m >240	<b>7</b>	14	6
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>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>25</b>	13	27
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>40</b>	40	33
Manganese	ppm	ASTM D5185m	<b>1</b>	1	<1
Magnesium	ppm	ASTM D5185m 0	<b>446</b>	459	510
Calcium	ppm	ASTM D5185m	<b>1675</b>	1959	1679
Phosphorus	ppm	ASTM D5185m	<b>753</b>	852	789
Zinc	ppm	ASTM D5185m	<b>905</b>	1039	903
Sulfur	ppm	ASTM D5185m	<b>2710</b>	3901	3237

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >35	<b>13</b>	10	8
Sodium	ppm	ASTM D5185m	<b>19</b>	33	8
Potassium	ppm	ASTM D5185m >20	<b>2</b>	2	0

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.7</b>	1	0.6
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.7</b>	11.6	9.5
Sulfation	Abs.1mm	*ASTM D7415 >30	<b>22.3</b>	24.3	21.7

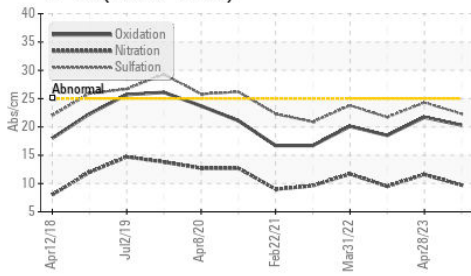
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs.1mm	*ASTM D7414 >25	<b>20.3</b>	21.7	18.5
Base Number (BN)	mg KOH/g	ASTM D2896 9.4	<b>10.2</b>	7.8	9.3

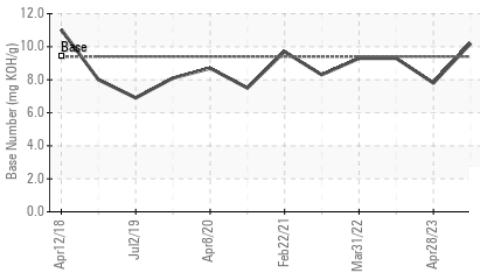


# OIL ANALYSIS REPORT

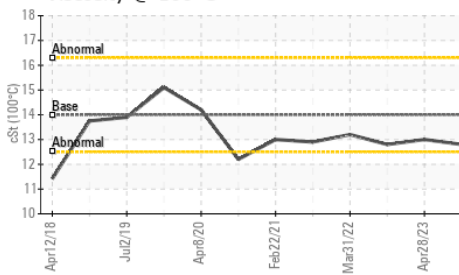
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C

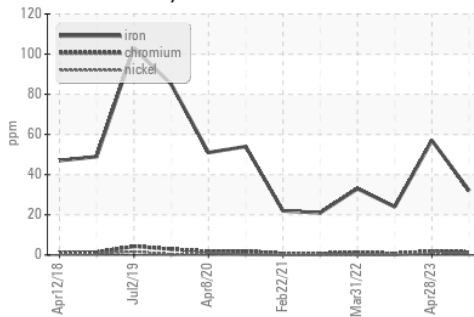


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

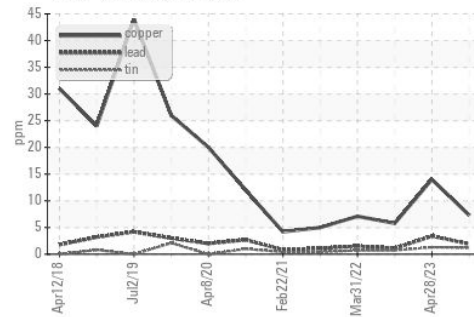
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445 14	<b>12.8</b>	13.0	12.8

## GRAPHS

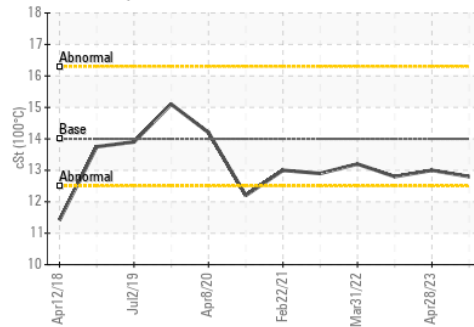
Ferrous Alloys



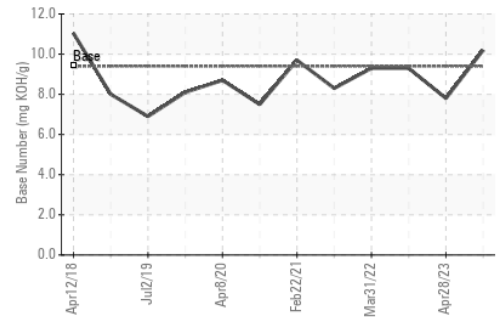
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0908773      **Received** : 05 Apr 2024  
**Lab Number** : **06139467**      **Tested** : 05 Apr 2024  
**Unique Number** : 10964275      **Diagnosed** : 05 Apr 2024 - 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:

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)