



# OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Area

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

Machine Id

**21.42L [OKLAHOMA^102^EG - OTHER SERVICE]**

Component

**Rear Left Final Drive**

Fluid

**MOBIL MOBILUBE HD PLUS 85W140 (3 QTS)**

## DIAGNOSIS

### Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0935276</b>	---	---
Sample Date	Client Info		<b>28 May 2024</b>	---	---
Machine Age	hrs	Client Info	<b>6738</b>	---	---
Oil Age	hrs	Client Info	<b>1000</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	<b>171</b>	---
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---
Titanium	ppm	ASTM D5185m		<b>13</b>	---
Silver	ppm	ASTM D5185m		<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>25	<b>24</b>	---
Lead	ppm	ASTM D5185m	>25	<b>2</b>	---
Copper	ppm	ASTM D5185m	>50	<b>13</b>	---
Tin	ppm	ASTM D5185m	>10	<b>1</b>	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>8</b>	---
Barium	ppm	ASTM D5185m		<b>0</b>	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	---
Manganese	ppm	ASTM D5185m		<b>3</b>	---
Magnesium	ppm	ASTM D5185m		<b>4</b>	---
Calcium	ppm	ASTM D5185m		<b>121</b>	---
Phosphorus	ppm	ASTM D5185m		<b>59</b>	---
Zinc	ppm	ASTM D5185m		<b>57</b>	---
Sulfur	ppm	ASTM D5185m		<b>5714</b>	---

## CONTAMINANTS

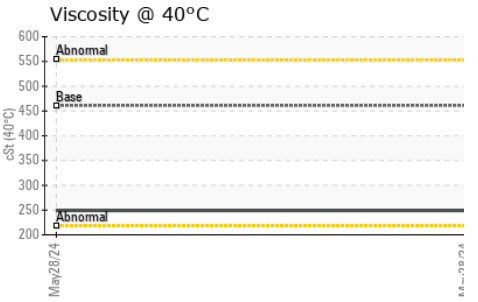
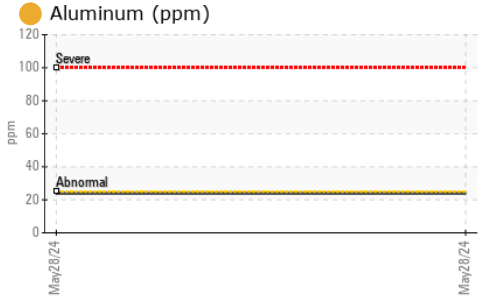
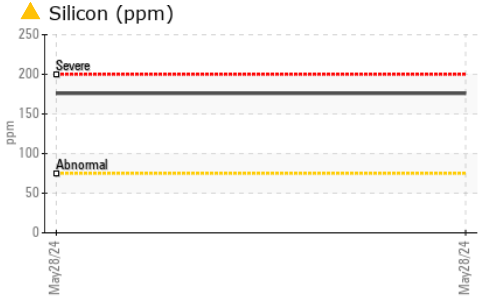
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<b>▲ 176</b>	---
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	---

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---
Free Water	scalar	*Visual		<b>NEG</b>	---



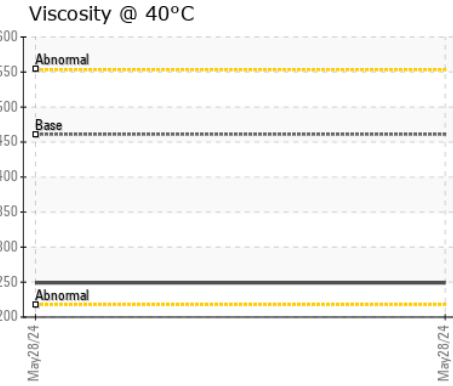
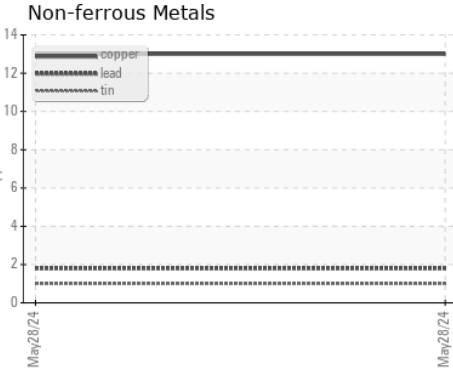
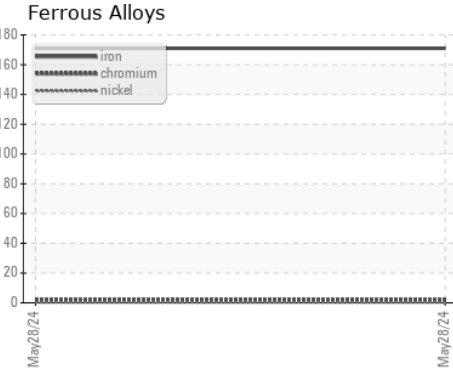
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 461	<b>249</b>	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0935276  
**Lab Number** : **06208148**  
**Unique Number** : 11075609  
**Test Package** : CONST

**Received** : 12 Jun 2024  
**Tested** : 14 Jun 2024  
**Diagnosed** : 14 Jun 2024 - Don Baldrige

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
 Contact: DOUG KING  
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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)