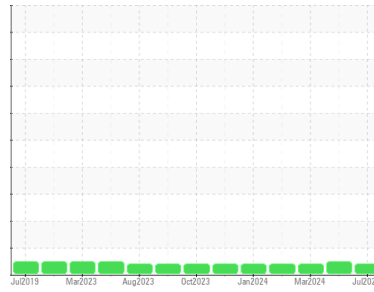




# OIL ANALYSIS REPORT

## Sample Rating Trend



## VISCOSITY



Area

**OKLAHOMA/102/TR - TANKS**

Machine Id

**05.78 TANKS [OKLAHOMA^102^TR - TANKS]**

Component

**Diesel Engine**

Fluid

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

### DIAGNOSIS

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0945526</b>	WC0935114	WC0908771
Sample Date	Client Info			<b>03 Jul 2024</b>	01 May 2024	11 Mar 2024
Machine Age	hrs	Client Info		<b>17000</b>	16800	16400
Oil Age	hrs	Client Info		<b>200</b>	200	200
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>ATTENTION</b>	NORMAL	ATTENTION

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	>100	<b>5</b>	6	6
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>330	<b>0</b>	<1	0
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>25</b>	31	23
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>36</b>	36	35
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	0	<b>434</b>	399	369
Calcium	ppm	ASTM D5185m		<b>1522</b>	1366	1243
Phosphorus	ppm	ASTM D5185m		<b>679</b>	712	569
Zinc	ppm	ASTM D5185m		<b>805</b>	783	678
Sulfur	ppm	ASTM D5185m		<b>3619</b>	2397	2033

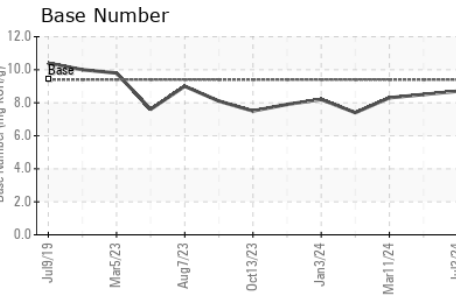
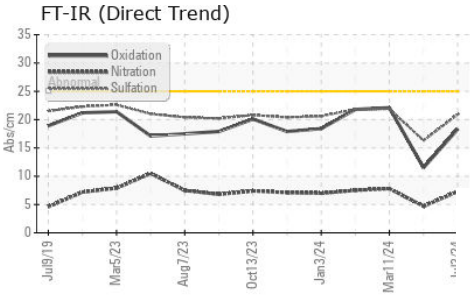
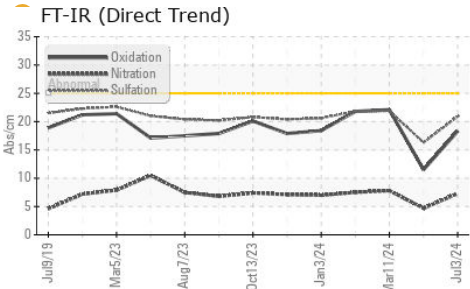
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>3</b>	4	4
Sodium	ppm	ASTM D5185m		<b>8</b>	11	18
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.3</b>	4.7	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.9</b>	16.3	21.9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.3</b>	11.5	22.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>8.7</b>	8.5	8.3



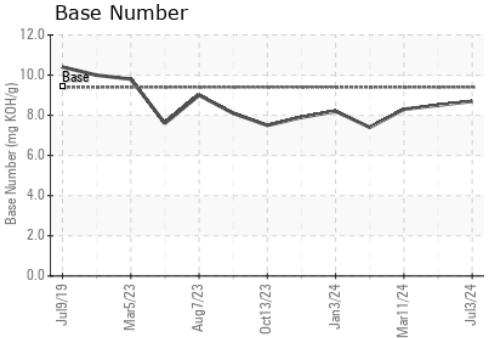
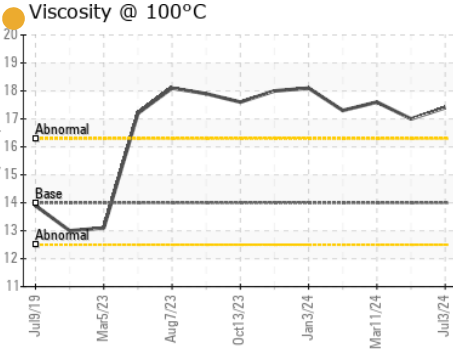
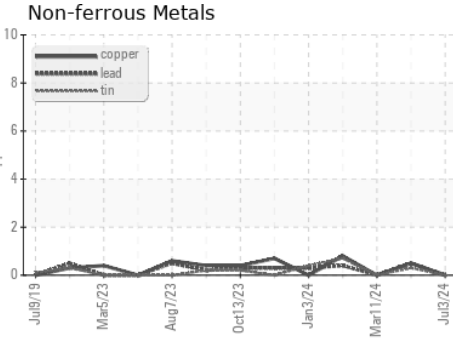
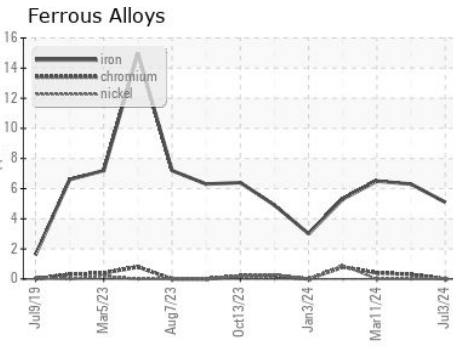
# OIL ANALYSIS REPORT



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	<span style="color: orange;">●</span> 17.4	17.0	<span style="color: orange;">●</span> 17.6

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0945526      **Received** : 15 Jul 2024  
**Lab Number** : 06235721      **Tested** : 16 Jul 2024  
**Unique Number** : 11124555      **Diagnosed** : 16 Jul 2024 - Don Baldrige  
**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  
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 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)