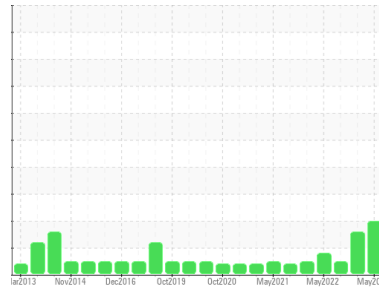




# OIL ANALYSIS REPORT

Area  
**KANSAS/44/EG - OTHER SERVICE**  
 Machine Id  
**63.03 [KANSAS^44^EG - OTHER SERVICE]**  
 Component  
**Hydraulic System**  
 Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- GAL)**

Sample Rating Trend



**WATER**



## DIAGNOSIS

### ▲ Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0908917</b>	WC0746036	WC0697710
Sample Date	Client Info		<b>28 May 2024</b>	15 Dec 2022	04 Aug 2022
Machine Age	hrs	Client Info	<b>13360</b>	13171	12885
Oil Age	hrs	Client Info	<b>1000</b>	11170	11374
Oil Changed	Client Info		<b>Changed</b>	N/A	Not Changd
Sample Status			<b>ABNORMAL</b>	ABNORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>8</b>	5	5
Chromium	ppm	ASTM D5185m >10	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >10	<b>4</b>	2	3
Lead	ppm	ASTM D5185m >10	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m >75	<b>4</b>	4	2
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>63</b>	53	68
Barium	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185m 0	<b>20</b>	20	22
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 0	<b>270</b>	262	256
Calcium	ppm	ASTM D5185m	<b>2372</b>	2285	2238
Phosphorus	ppm	ASTM D5185m	<b>958</b>	877	879
Zinc	ppm	ASTM D5185m	<b>1069</b>	1043	1033
Sulfur	ppm	ASTM D5185m	<b>4223</b>	4192	3637

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>12</b>	6	6
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	1	0
Potassium	ppm	ASTM D5185m >20	<b>1</b>	<1	2
Water	%	ASTM D6304 >0.1	<b>▲ 0.199</b>	---	---
ppm Water	ppm	ASTM D6304 >1000	<b>▲ 1990</b>	---	---

## FLUID CLEANLINESS

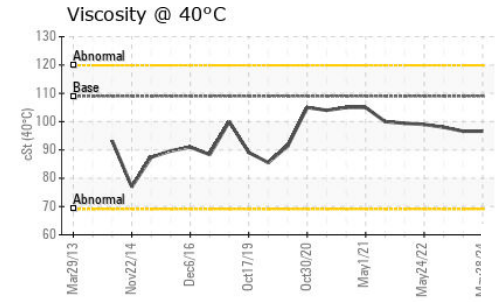
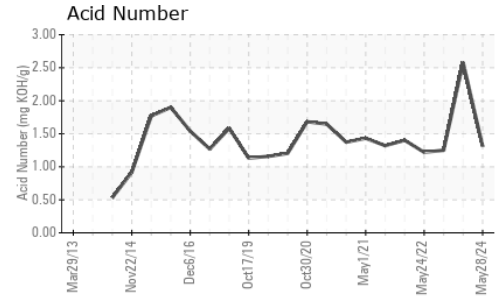
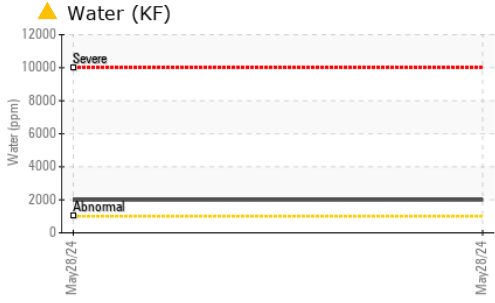
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		---	24317	7219
Particles >6µm	ASTM D7647	>2500	---	<b>▲ 6599</b>	865
Particles >14µm	ASTM D7647	>640	---	<b>▲ 640</b>	96
Particles >21µm	ASTM D7647	>160	---	<b>▲ 161</b>	27
Particles >38µm	ASTM D7647	>40	---	5	1
Particles >71µm	ASTM D7647	>10	---	0	0
Oil Cleanliness	ISO 4406 (c)	>--/18/16	---	<b>▲ 22/20/16</b>	20/17/14

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.31</b>	2.58	1.25



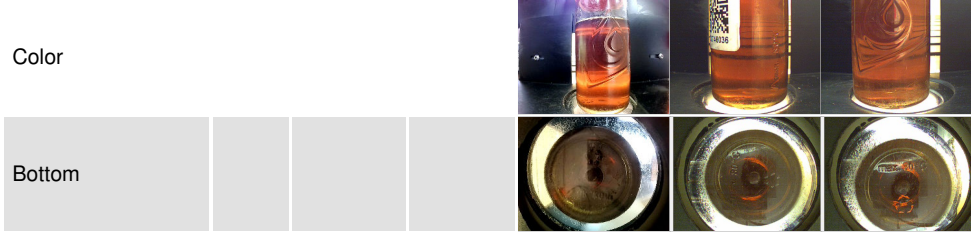
# OIL ANALYSIS REPORT



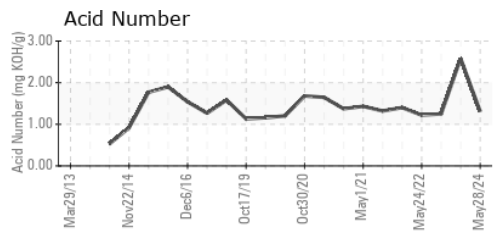
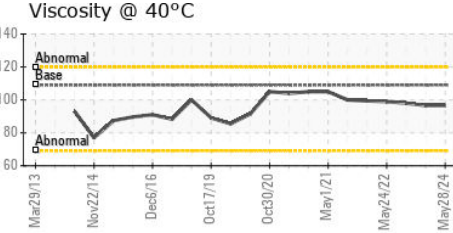
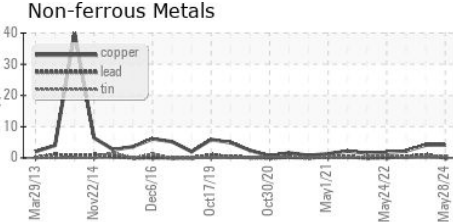
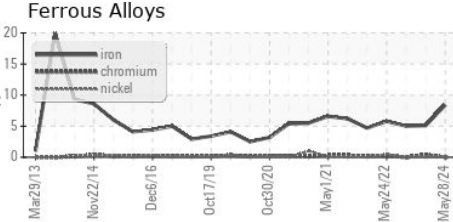
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 109	96.6	96.6	98.0

### SAMPLE IMAGES



### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0908917      **Received** : 05 Jun 2024  
**Lab Number** : 06200066      **Tested** : 07 Jun 2024  
**Unique Number** : 11062189      **Diagnosed** : 07 Jun 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: KF )

**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)