

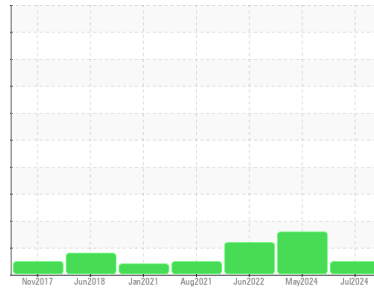


# OIL ANALYSIS REPORT



Area  
**KANSAS/44/EG - TRUCK-OFF-HWY-HEAVY HAUL**  
 Machine Id  
**69.98L [KANSAS^44^EG - TRUCK-OFF-HWY-HEAVY HAUL]**  
 Component  
**Steering**  
 Fluid  
**MOBIL MOBILTRANS AST 30 (--- GAL)**

Sample Rating Trend



**NORMAL**

## DIAGNOSIS

**Recommendation**  
 Resample at the next service interval to monitor. ( Customer Sample Comment: 7900 hours )

**Wear**  
 All component wear rates are normal.

**Contamination**  
 There is no indication of any contamination in the fluid. The amount and size of particulates present in the system are acceptable.

**Fluid Condition**  
 The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0925173</b>	WC0908879	WC0702219
Sample Date	Client Info			<b>08 Jul 2024</b>	29 May 2024	08 Jun 2022
Machine Age	hrs	Client Info		<b>7900</b>	7742	6600
Oil Age	hrs	Client Info		<b>6120</b>	1622	500
Oil Changed	Client Info			<b>N/A</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	ABNORMAL	ATTENTION

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>60	<b>29</b>	26	3
Chromium	ppm	ASTM D5185m	>12	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>6	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>4	<b>3</b>	<1	1
Lead	ppm	ASTM D5185m	>12	<b>4</b>	4	<1
Copper	ppm	ASTM D5185m	>30	<b>21</b>	▲ 21	<1
Tin	ppm	ASTM D5185m		<b>&lt;1</b>	2	0
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		<b>36</b>	41	38
Barium	ppm	ASTM D5185m		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Manganese	ppm	ASTM D5185m		<b>0</b>	1	<1
Magnesium	ppm	ASTM D5185m		<b>16</b>	19	26
Calcium	ppm	ASTM D5185m		<b>3056</b>	3235	2879
Phosphorus	ppm	ASTM D5185m		<b>997</b>	1134	957
Zinc	ppm	ASTM D5185m		<b>1293</b>	1323	1192
Sulfur	ppm	ASTM D5185m		<b>5151</b>	6079	4819

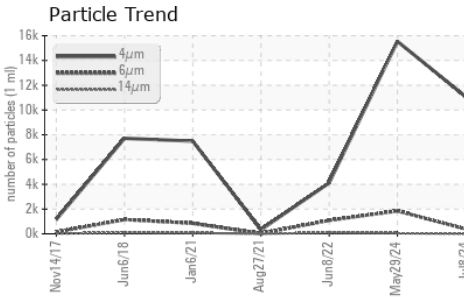
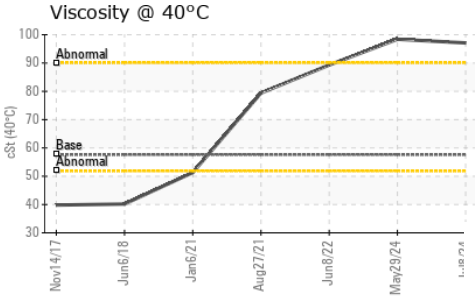
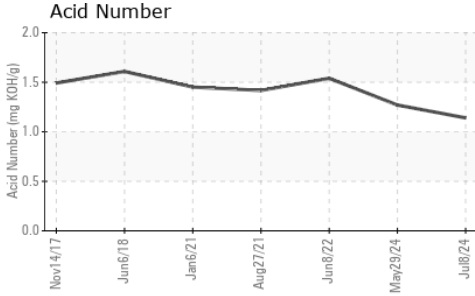
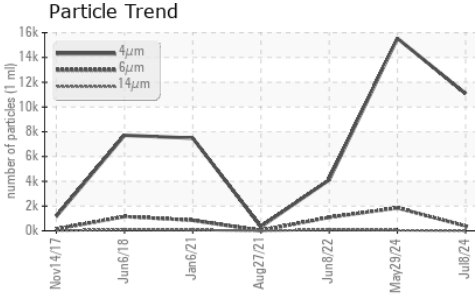
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>10	<b>8</b>	8	6
Sodium	ppm	ASTM D5185m		<b>0</b>	2	2
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>11081</b>	15544	4116
Particles >6µm		ASTM D7647	>640	<b>387</b>	▲ 1846	● 1084
Particles >14µm		ASTM D7647	>80	<b>9</b>	47	● 93
Particles >21µm		ASTM D7647	>20	<b>3</b>	10	18
Particles >38µm		ASTM D7647	>4	<b>1</b>	0	1
Particles >71µm		ASTM D7647	>3	<b>1</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>--/16/13	<b>21/16/10</b>	▲ 21/18/13	● 19/17/14

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.14</b>	1.27	1.54



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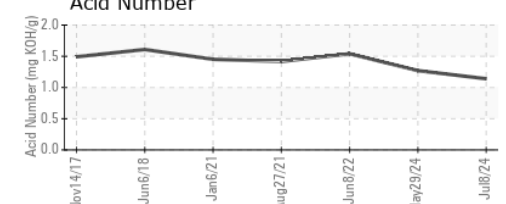
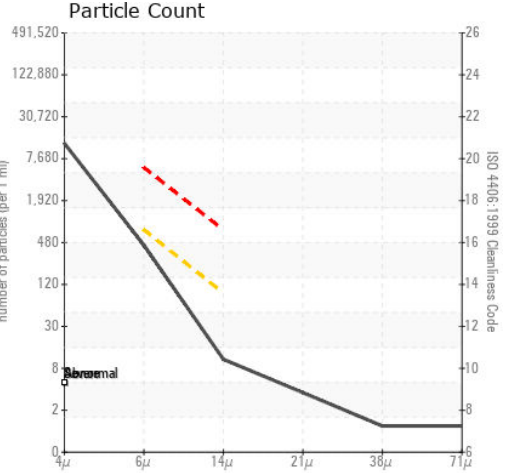
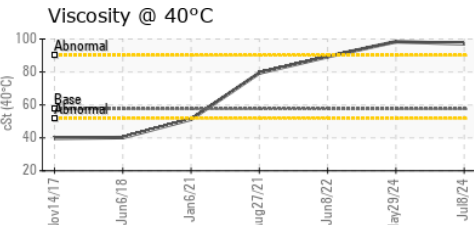
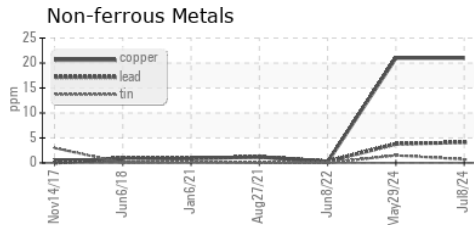
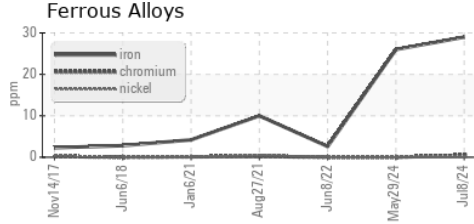


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 57.6	97.1	98.4	89.3

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

## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WC0925173 Received : 15 Jul 2024  
 Lab Number : 06237143 Tested : 19 Jul 2024  
 Unique Number : 11125977 Diagnosed : 19 Jul 2024 - Jonathan Hester  
 Test Package : CONST ( Additional Tests: PRTCOUNT )

**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)