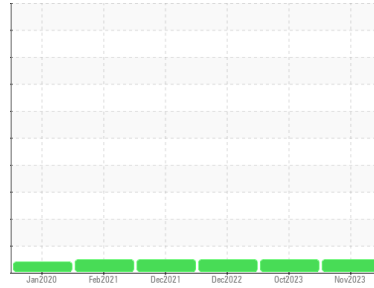




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
OKLAHOMA/105/EG - TRUCK-ON-HWY-HEAVY DUTY
 Machine Id
08.104 [OKLAHOMA^105^EG - TRUCK-ON-HWY-HEAVY DUTY]
 Component
Hydraulic System
 Fluid
TDH FLUID SAE 75W80 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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		WC0874060	WC0857221	WC0746275
Sample Date	Client Info		09 Nov 2023	17 Oct 2023	05 Dec 2022
Machine Age	hrs	Client Info	13158	13081	11665
Oil Age	hrs	Client Info	77	1416	1445
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	2	2	3
Chromium	ppm	ASTM D5185m >10	0	0	0
Nickel	ppm	ASTM D5185m >10	0	<1	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	<1	0
Aluminum	ppm	ASTM D5185m >10	1	2	<1
Lead	ppm	ASTM D5185m >10	0	1	<1
Copper	ppm	ASTM D5185m >75	2	4	2
Tin	ppm	ASTM D5185m >10	0	1	0
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 10	130	112	130
Barium	ppm	ASTM D5185m 10	6	0	0
Molybdenum	ppm	ASTM D5185m 10	1	0	1
Manganese	ppm	ASTM D5185m	0	<1	<1
Magnesium	ppm	ASTM D5185m 100	21	32	21
Calcium	ppm	ASTM D5185m 3500	3739	3571	3732
Phosphorus	ppm	ASTM D5185m 1150	1255	1202	1124
Zinc	ppm	ASTM D5185m 1150	1469	1555	1370
Sulfur	ppm	ASTM D5185m 5000	5277	4665	5088

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	11	11	10
Sodium	ppm	ASTM D5185m	0	3	8
Potassium	ppm	ASTM D5185m >20	<1	1	0

FLUID CLEANLINESS

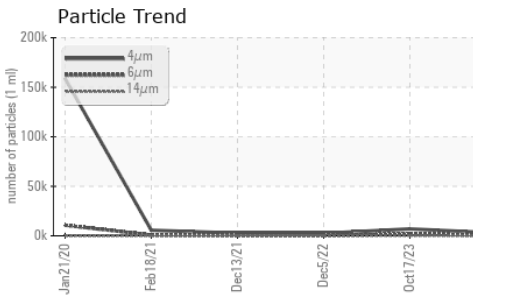
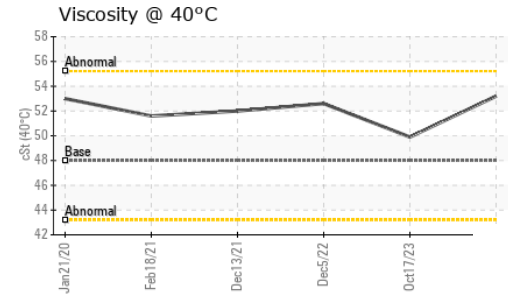
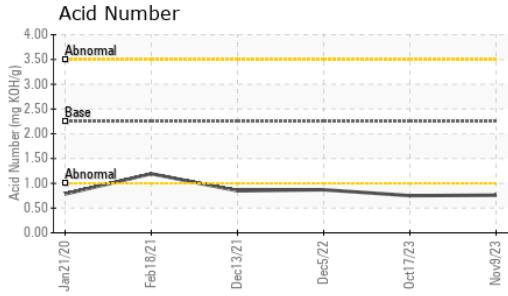
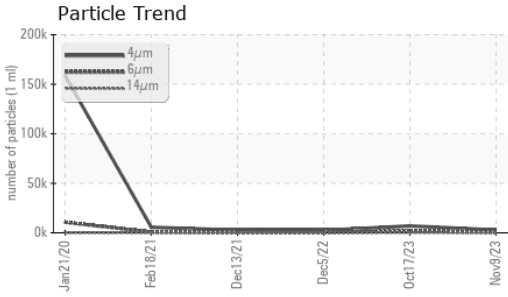
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		2869	7020	2521
Particles >6µm	ASTM D7647	>2500	549	1757	268
Particles >14µm	ASTM D7647	>640	44	139	11
Particles >21µm	ASTM D7647	>160	16	31	1
Particles >38µm	ASTM D7647	>40	1	1	0
Particles >71µm	ASTM D7647	>10	0	0	0
Oil Cleanliness	ISO 4406 (c)	>--/18/16	19/16/13	20/18/14	19/15/11

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 2.25	0.76	0.75	0.87



OIL ANALYSIS REPORT

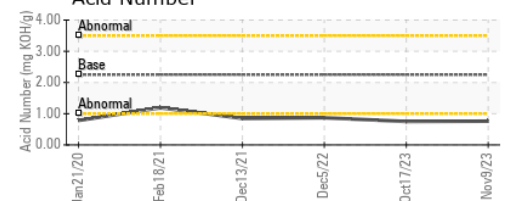
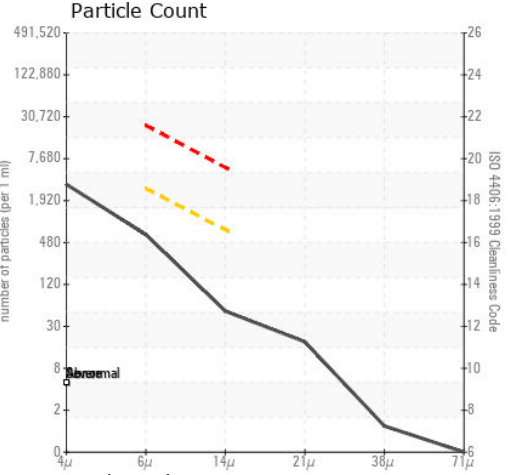
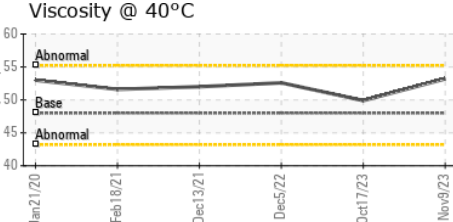
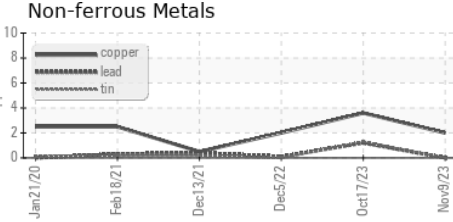
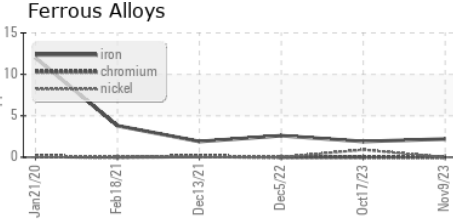


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 48	53.2	49.9	52.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0874060 **Received** : 15 Nov 2023
Lab Number : 06009060 **Diagnosed** : 19 Nov 2023
Unique Number : 10742822 **Diagnostician** : Don Baldrige
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:

Certificate L2367
 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)