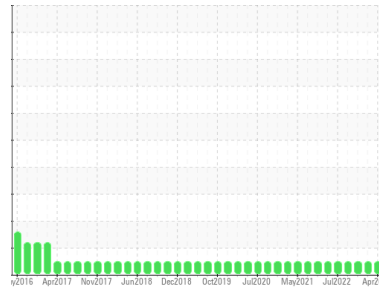




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
OKLAHOMA/105/EG - TRUCK-ON-HWY-HEAVY DUTY
 Machine Id
08.105 [OKLAHOMA^105^EG - TRUCK-ON-HWY-HEAVY DUTY]
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0908776	WC0874054	WC0821722
Sample Date	Client Info	01 Apr 2024	15 Nov 2023	10 Jul 2023
Machine Age	hrs	14009	13421	12699
Oil Age	hrs	588	722	869
Oil Changed	Client Info	Not Chngd	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >3.0	<1.0	<1.0	<1.0
Water	WC Method >0.2	NEG	NEG	NEG
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >90	16	20	24
Chromium	ppm ASTM D5185m >20	1	<1	<1
Nickel	ppm ASTM D5185m >2	<1	0	0
Titanium	ppm ASTM D5185m >2	<1	<1	<1
Silver	ppm ASTM D5185m >2	0	0	0
Aluminum	ppm ASTM D5185m >20	8	19	28
Lead	ppm ASTM D5185m >40	1	<1	1
Copper	ppm ASTM D5185m >330	1	1	<1
Tin	ppm ASTM D5185m >15	1	0	<1
Vanadium	ppm ASTM D5185m	<1	0	<1
Cadmium	ppm ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	45	42	39
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 0	41	45	42
Manganese	ppm ASTM D5185m	<1	<1	<1
Magnesium	ppm ASTM D5185m 0	496	511	521
Calcium	ppm ASTM D5185m	1677	1689	1786
Phosphorus	ppm ASTM D5185m	760	772	763
Zinc	ppm ASTM D5185m	923	940	934
Sulfur	ppm ASTM D5185m	2542	2527	2959

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	8	7	6
Sodium	ppm ASTM D5185m	2	<1	4
Potassium	ppm ASTM D5185m >20	19	59	79

INFRA-RED

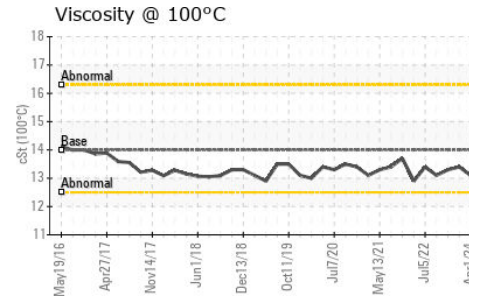
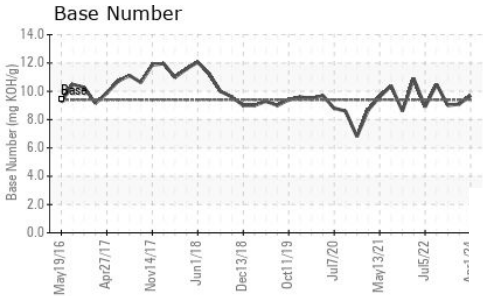
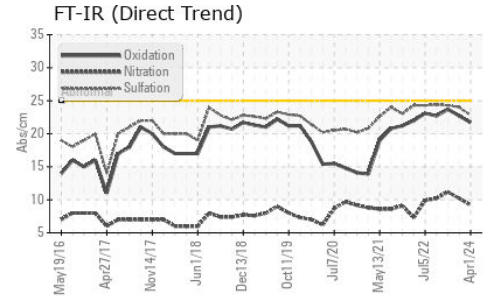
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >6	0.7	0.8	0.7
Nitration	Abs/cm *ASTM D7624 >20	9.2	10.2	11.2
Sulfation	Abs/.1mm *ASTM D7415 >30	22.8	24.0	24.3

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	21.7	22.7	23.7
Base Number (BN)	mg KOH/g ASTM D2896 9.4	9.7	9.1	9.0



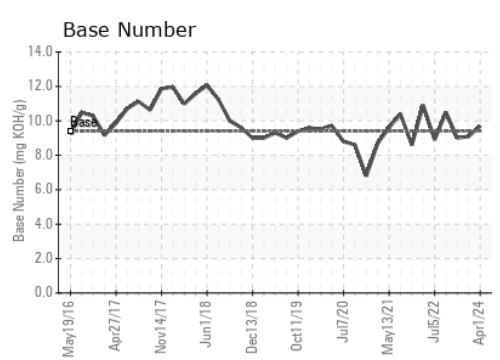
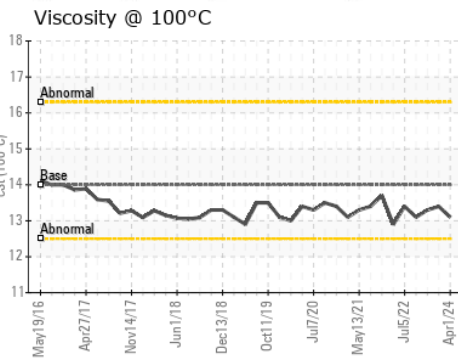
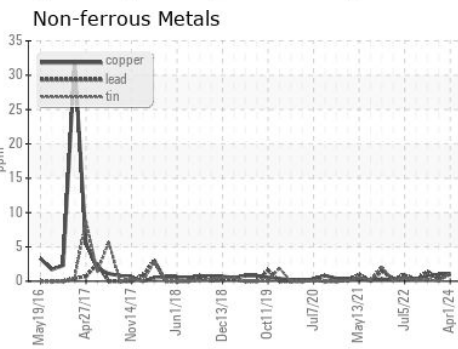
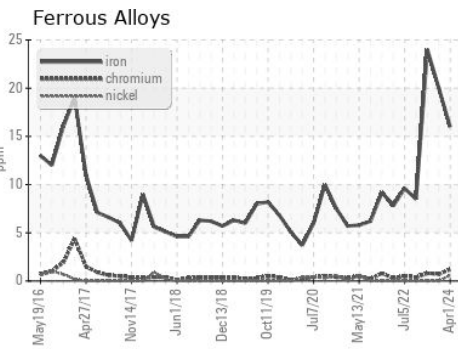
OIL ANALYSIS REPORT



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	13.1	13.4	13.3

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0908776 **Received** : 05 Apr 2024
Lab Number : **06139465** **Tested** : 05 Apr 2024
Unique Number : 10964273 **Diagnosed** : 05 Apr 2024 - Wes Davis
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
 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)