

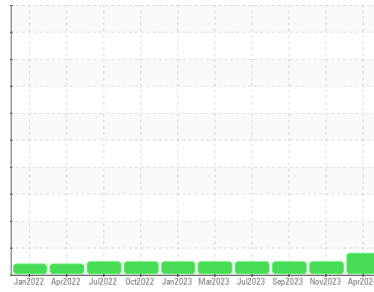


OIL ANALYSIS REPORT



Area
OKLAHOMA/102
 Machine Id
45.63L [OKLAHOMA^102]
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (5 GAL)

Sample Rating Trend



FUEL



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected 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	WC0864333	WC0857361	WC0848891
Sample Date	Client Info	10 Apr 2024	22 Nov 2023	09 Sep 2023
Machine Age	hrs	1894	1606	1430
Oil Age	hrs	288	289	250
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		MARGINAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
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 >100	43	64	11
Chromium	ppm ASTM D5185m >20	<1	0	<1
Nickel	ppm ASTM D5185m >2	0	0	0
Titanium	ppm ASTM D5185m >2	0	0	0
Silver	ppm ASTM D5185m >2	0	0	0
Aluminum	ppm ASTM D5185m >25	9	4	0
Lead	ppm ASTM D5185m >40	<1	0	0
Copper	ppm ASTM D5185m >330	<1	0	<1
Tin	ppm ASTM D5185m >15	<1	0	<1
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	54	58	72
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 0	38	39	42
Manganese	ppm ASTM D5185m	<1	0	<1
Magnesium	ppm ASTM D5185m 0	470	505	576
Calcium	ppm ASTM D5185m	1642	1726	1812
Phosphorus	ppm ASTM D5185m	763	815	818
Zinc	ppm ASTM D5185m	832	993	993
Sulfur	ppm ASTM D5185m	2803	2663	3347

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	3	2	4
Sodium	ppm ASTM D5185m	14	5	5
Potassium	ppm ASTM D5185m >20	24	0	1
Fuel	% ASTM D3524 >5	▲ 2.0	<1.0	<1.0

INFRA-RED

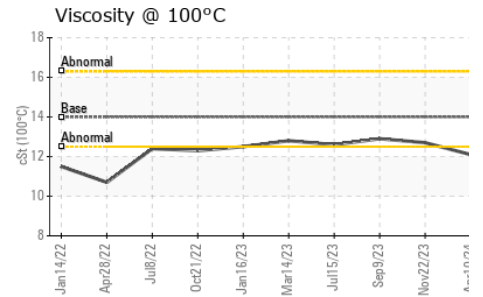
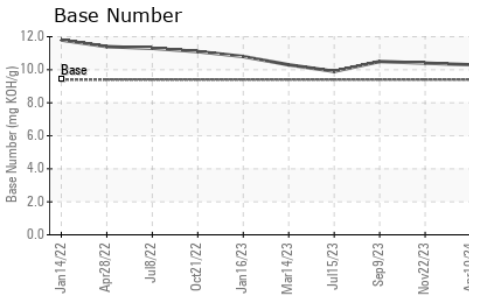
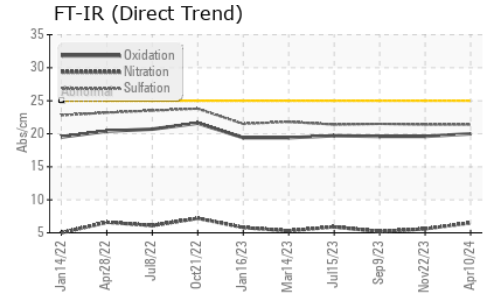
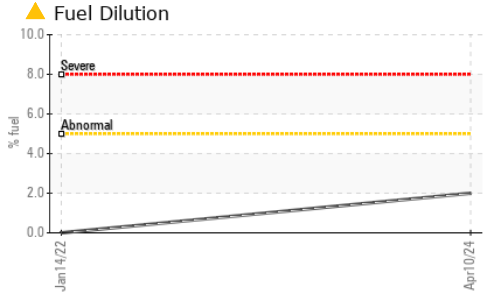
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.1	0.1	0.1
Nitration	Abs/cm *ASTM D7624 >20	6.5	5.6	5.2
Sulfation	Abs/.1mm *ASTM D7415 >30	21.4	21.4	21.5

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	20.0	19.6	19.6
Base Number (BN)	mg KOH/g ASTM D2896 9.4	10.3	10.4	10.5



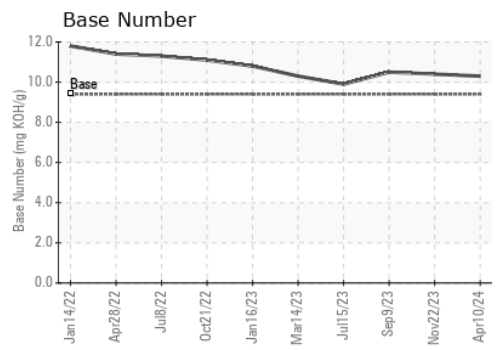
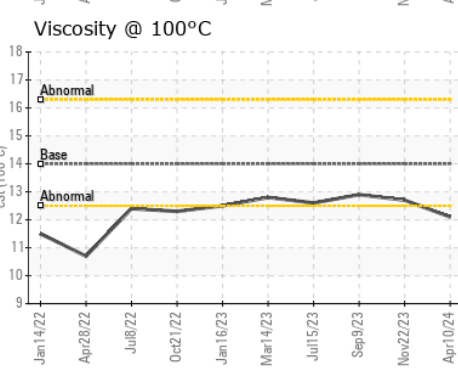
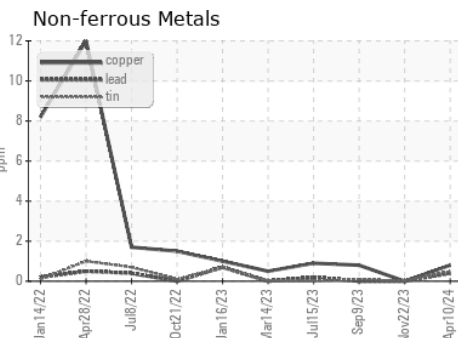
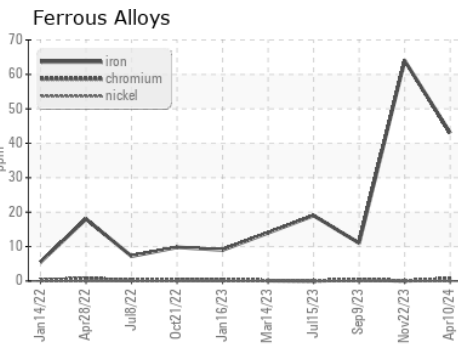
OIL ANALYSIS REPORT



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	12.1	12.7	12.9

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0864333 **Received** : 16 Apr 2024
Lab Number : 06150891 **Tested** : 22 Apr 2024
Unique Number : 10980969 **Diagnosed** : 22 Apr 2024 - Wes Davis
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, 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)