

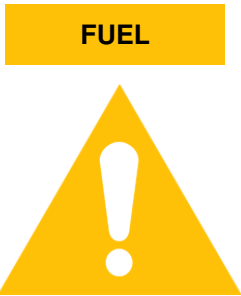
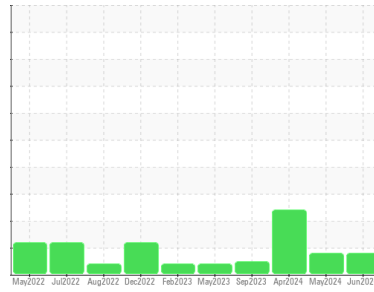


OIL ANALYSIS REPORT



Area
KANSAS/44/HY - SKID STEER
 Machine Id
53.157L [KANSAS^44^HY - SKID STEER]
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (2 GAL)

Sample Rating Trend



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	WC0918270	WC0918221	WC0918157
Sample Date	Client Info	11 Jun 2024	01 May 2024	08 Apr 2024
Machine Age	hrs	1937	1918	1836
Oil Age	hrs	1	1836	467
Oil Changed	Client Info	Changed	N/A	Changed
Sample Status		MARGINAL	MARGINAL	SEVERE

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	1	2	7
Chromium	ppm ASTM D5185m >20	0	0	<1
Nickel	ppm ASTM D5185m >2	0	0	0
Titanium	ppm ASTM D5185m >2	0	0	0
Silver	ppm ASTM D5185m >2	0	<1	0
Aluminum	ppm ASTM D5185m >25	1	1	2
Lead	ppm ASTM D5185m >40	0	0	0
Copper	ppm ASTM D5185m >330	0	1	6
Tin	ppm ASTM D5185m >15	0	0	0
Vanadium	ppm ASTM D5185m	0	<1	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	53	59	38
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 0	35	38	39
Manganese	ppm ASTM D5185m	<1	0	0
Magnesium	ppm ASTM D5185m 0	481	485	488
Calcium	ppm ASTM D5185m	1589	1618	1630
Phosphorus	ppm ASTM D5185m	749	732	788
Zinc	ppm ASTM D5185m	865	879	913
Sulfur	ppm ASTM D5185m	2843	2848	2365

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	5	4	4
Sodium	ppm ASTM D5185m	3	2	2
Potassium	ppm ASTM D5185m >20	2	<1	2
Fuel	% ASTM D3524 >5	▲ 3.9	▲ 2.6	▲ 9.5

INFRA-RED

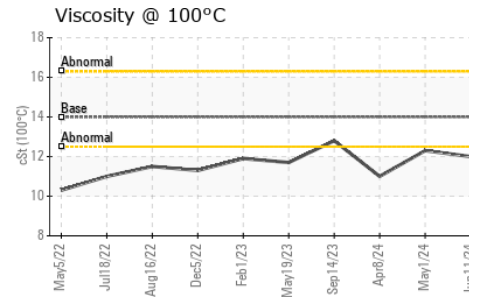
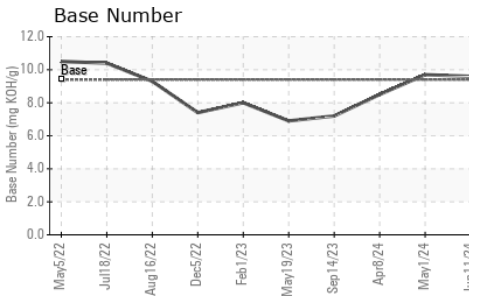
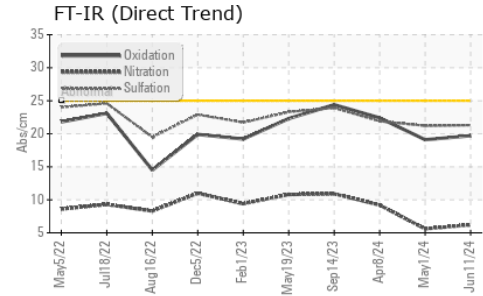
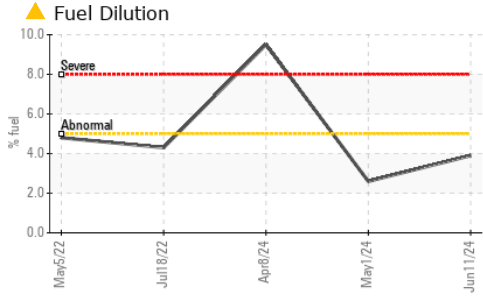
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.1	0.1	0.1
Nitration	Abs/cm *ASTM D7624 >20	6.2	5.6	9.2
Sulfation	Abs/.1mm *ASTM D7415 >30	21.3	21.2	21.9

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	19.7	19.1	22.4
Base Number (BN)	mg KOH/g ASTM D2896 9.4	9.6	9.7	8.5



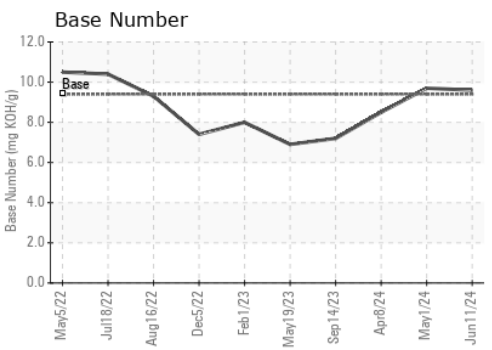
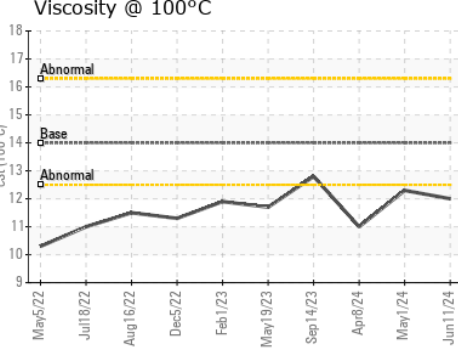
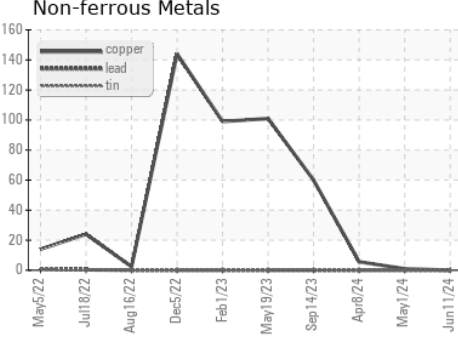
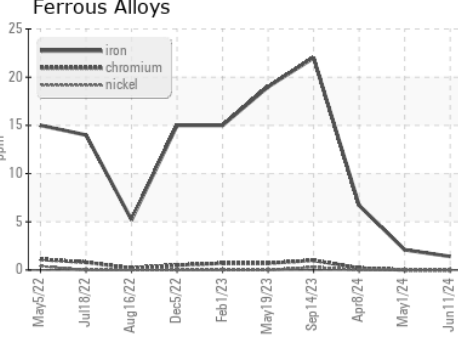
OIL ANALYSIS REPORT



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	12.0	12.3	▲ 11.0

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0918270 **Received** : 19 Jun 2024
Lab Number : **06214480** **Tested** : 21 Jun 2024
Unique Number : 11087344 **Diagnosed** : 21 Jun 2024 - Wes Davis
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

SHERWOOD CONSTRUCTION CO INC
 3219 WEST MAY ST
 WICHITA, KS 67213
 Contact: RANDY ROBERTS
 randy.roberts@sherwood.net

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)