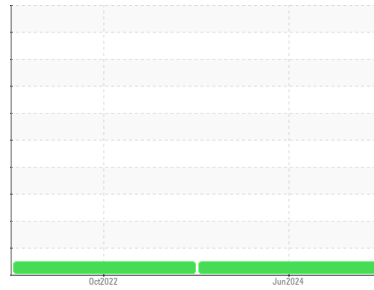




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

OKLAHOMA/012/UNKNOWN

Machine ID

86.101 [OKLAHOMA^012^UNKNOWN]

Component

Diesel Engine

Fluid

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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		WC0935115	WC0713162	---
Sample Date	Client Info		13 Jun 2024	10 Oct 2022	---
Machine Age	hrs	Client Info	12377	1027	---
Oil Age	hrs	Client Info	1027	250	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	---
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	70	65	---
Chromium	ppm	ASTM D5185m >20	1	2	---
Nickel	ppm	ASTM D5185m >4	<1	<1	---
Titanium	ppm	ASTM D5185m	<1	<1	---
Silver	ppm	ASTM D5185m >3	0	2	---
Aluminum	ppm	ASTM D5185m >20	2	5	---
Lead	ppm	ASTM D5185m >40	2	9	---
Copper	ppm	ASTM D5185m >330	8	27	---
Tin	ppm	ASTM D5185m >15	0	2	---
Vanadium	ppm	ASTM D5185m	<1	<1	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	44	9	---
Barium	ppm	ASTM D5185m 0	0	0	---
Molybdenum	ppm	ASTM D5185m 0	42	2	---
Manganese	ppm	ASTM D5185m	<1	2	---
Magnesium	ppm	ASTM D5185m 0	545	15	---
Calcium	ppm	ASTM D5185m	2007	2558	---
Phosphorus	ppm	ASTM D5185m	835	909	---
Zinc	ppm	ASTM D5185m	996	1253	---
Sulfur	ppm	ASTM D5185m	2852	3625	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	11	8	---
Sodium	ppm	ASTM D5185m	4	5	---
Potassium	ppm	ASTM D5185m >20	2	2	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	2.3	0.5	---
Nitration	Abs/cm	*ASTM D7624 >20	10.2	13.4	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	27.2	27.9	---

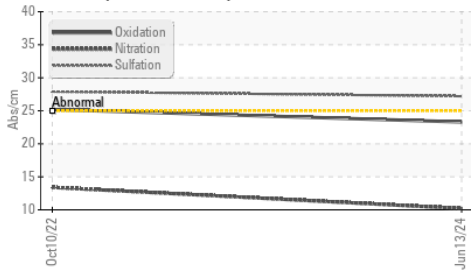
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	23.3	25.2	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.4	7.8	7.6	---

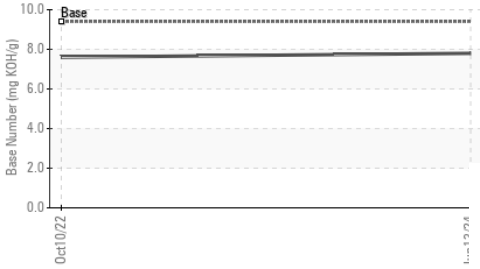


OIL ANALYSIS REPORT

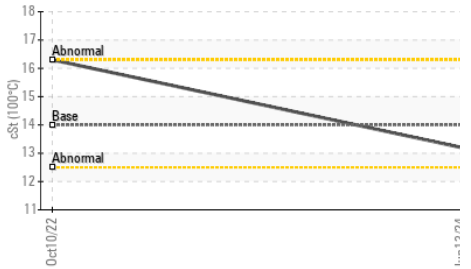
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C

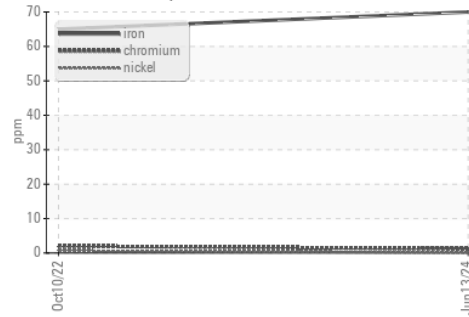


PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

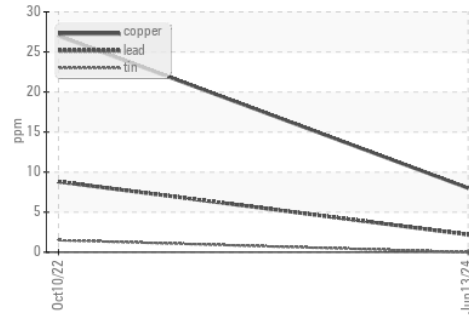
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14	13.2	16.3

GRAPHS

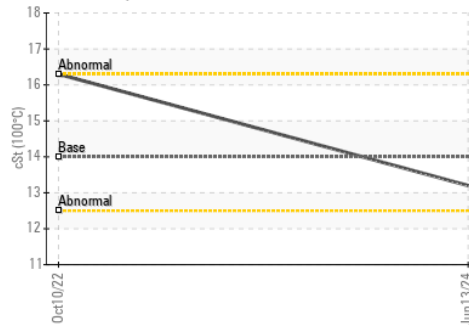
Ferrous Alloys



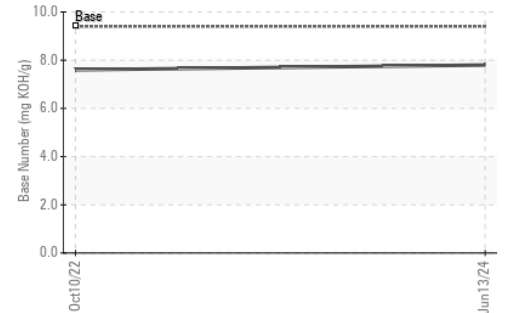
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0935115
Lab Number : 06215617
Unique Number : 11088481
Test Package : CONST (Additional Tests: TBN)

Received : 20 Jun 2024
Tested : 21 Jun 2024
Diagnosed : 21 Jun 2024 - Wes Davis

SHERWOOD CONSTRUCTION CO INC
 3219 WEST MAY ST
 WICHITA, KS
 US 67213
 Contact: SHAWN SOUTH
 shawn.south@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)

T: x:

F: x: