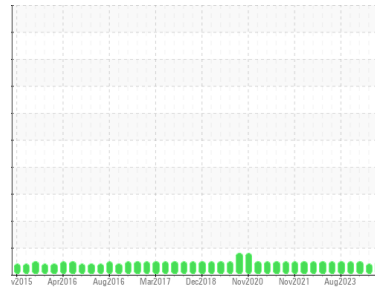




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
OKLAHOMA/102
 Machine Id
05.73 [OKLAHOMA^102]
 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			WC0848871	WC0886935	WC0857369
Sample Date	Client Info			04 Apr 2024	06 Feb 2024	03 Jan 2024
Machine Age	hrs Client Info			23227	22757	22542
Oil Age	hrs Client Info			298	301	289
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<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	>110		29	21	28
Chromium	ppm ASTM D5185m	>4		<1	<1	<1
Nickel	ppm ASTM D5185m	>2		0	0	0
Titanium	ppm ASTM D5185m			0	0	<1
Silver	ppm ASTM D5185m	>2		0	0	0
Aluminum	ppm ASTM D5185m	>25		1	2	2
Lead	ppm ASTM D5185m	>45		5	2	2
Copper	ppm ASTM D5185m	>85		1	1	2
Tin	ppm ASTM D5185m	>4		0	<1	<1
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	0		54	47	57
Barium	ppm ASTM D5185m	0		0	0	<1
Molybdenum	ppm ASTM D5185m	0		44	45	96
Manganese	ppm ASTM D5185m			0	<1	0
Magnesium	ppm ASTM D5185m	0		533	462	607
Calcium	ppm ASTM D5185m			1825	1391	1514
Phosphorus	ppm ASTM D5185m			747	615	798
Zinc	ppm ASTM D5185m			933	770	918
Sulfur	ppm ASTM D5185m			2955	2160	2995

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>30		4	4	4
Sodium	ppm ASTM D5185m			4	4	0
Potassium	ppm ASTM D5185m	>20		0	1	2

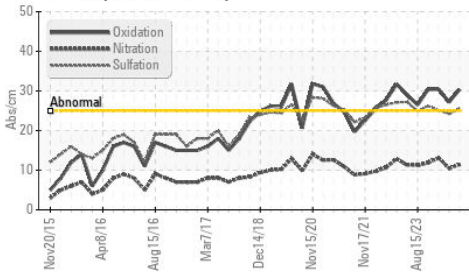
INFRA-RED		method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3		0.2	0.2	0.3
Nitration	Abs/cm *ASTM D7624	>20		11.4	10.5	13.1
Sulfation	Abs/.1mm *ASTM D7415	>30		25.5	24.2	25.1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25		30.4	27.2	30.4
Base Number (BN)	mg KOH/g ASTM D2896	9.4		7.2	7.3	6.1

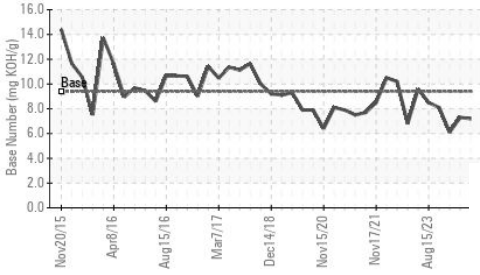


OIL ANALYSIS REPORT

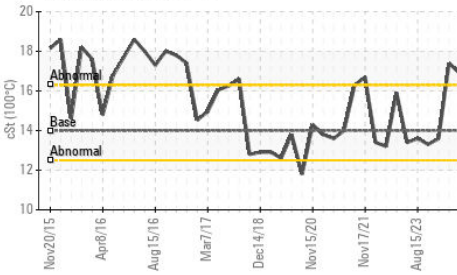
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C

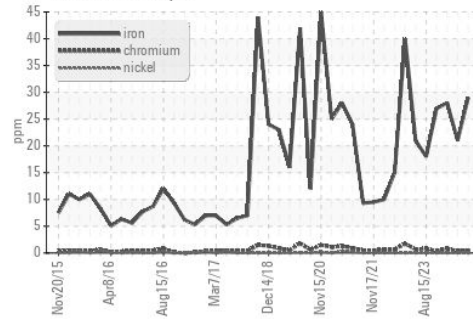


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

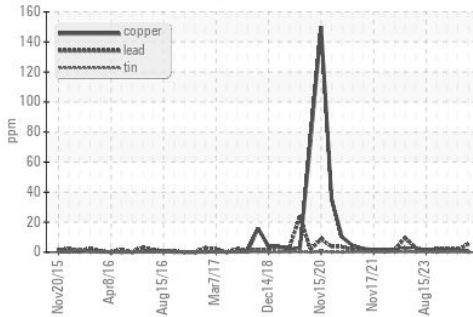
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445 14	16.9	17.4	13.6

GRAPHS

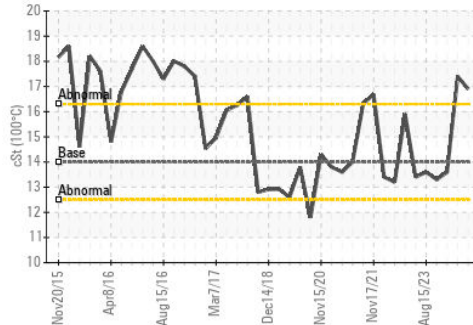
Ferrous Alloys



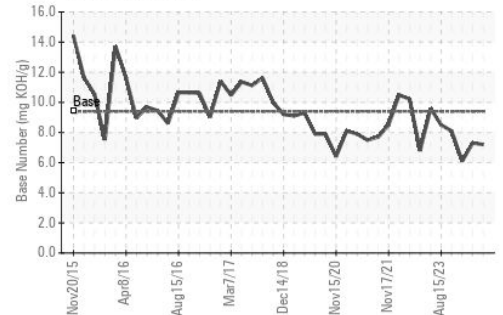
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0848871

Lab Number : 06160081

Unique Number : 10995504

Test Package : CONST (Additional Tests: TBN)

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)

Received : 25 Apr 2024

Tested : 25 Apr 2024

Diagnosed : 26 Apr 2024 - Don Baldrige

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: