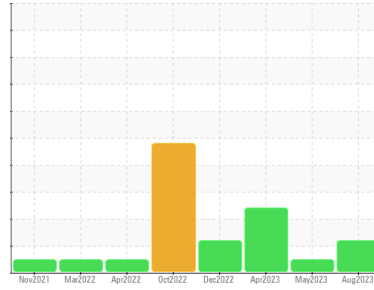




PROBLEM SUMMARY

Area
OKLAHOMA/105/COOL - Loader
 Machine Id
46.102L [OKLAHOMA^105^COOL - Loader]
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (6 GAL)

Sample Rating Trend

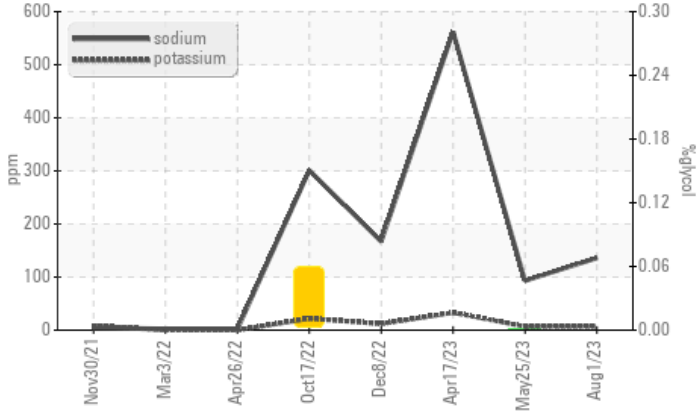


GLYCOL



COMPONENT CONDITION SUMMARY

▲ Glycol Contamination



RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	NORMAL	ABNORMAL
Sodium	ppm	ASTM D5185m	▲ 136	93	▲ 562

Customer Id: SHEWIC
 Sample No.: WC0834150
 Lab Number: 05923157
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

25 May 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. Test for glycol is negative. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report



17 Apr 2023 Diag: Jonathan Hester

GLYCOL



We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report



08 Dec 2022 Diag: Jonathan Hester

GLYCOL



No corrective action is recommended at this time. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels remain high. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report



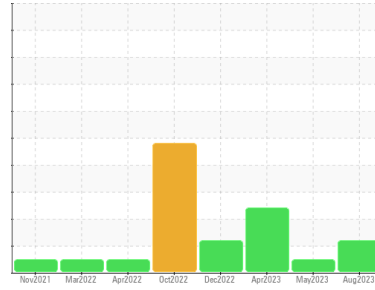


OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL

Area
OKLAHOMA/105/COOL - Loader
 Machine Id
46.102L [OKLAHOMA^105^COOL - Loader]
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (6 GAL)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels remain high. Test for glycol is negative.

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		WC0834150	WC0808106	WC0738507
Sample Date	Client Info		01 Aug 2023	25 May 2023	17 Apr 2023
Machine Age	hrs	Client Info	13548	13113	12983
Oil Age	hrs	Client Info	13113	12983	12051
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ATTENTION	NORMAL	ABNORMAL

CONTAMINATION	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	<1.0

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	6	7	42
Chromium	ppm	ASTM D5185m >20	0	0	<1
Nickel	ppm	ASTM D5185m >4	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >3	<1	0	0
Aluminum	ppm	ASTM D5185m >20	<1	<1	3
Lead	ppm	ASTM D5185m >40	<1	0	0
Copper	ppm	ASTM D5185m >330	<1	<1	0
Tin	ppm	ASTM D5185m >15	0	<1	0
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	47	53	18
Barium	ppm	ASTM D5185m 0	2	0	0
Molybdenum	ppm	ASTM D5185m 0	65	56	124
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m 0	487	466	442
Calcium	ppm	ASTM D5185m	1787	1703	1441
Phosphorus	ppm	ASTM D5185m	771	744	648
Zinc	ppm	ASTM D5185m	933	911	788
Sulfur	ppm	ASTM D5185m	2832	2850	2379

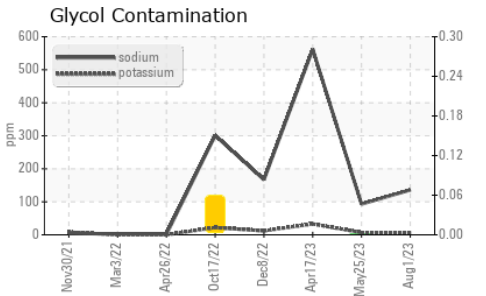
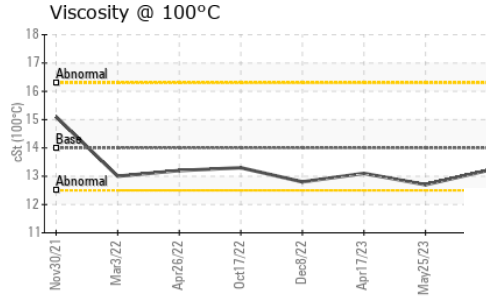
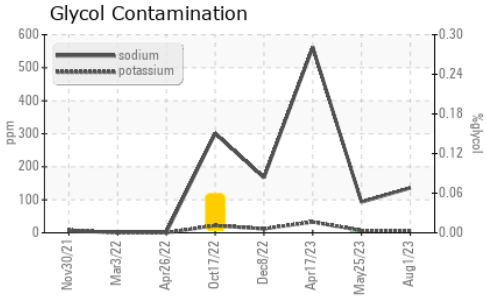
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	4	2	8
Sodium	ppm	ASTM D5185m	▲ 136	93	▲ 562
Potassium	ppm	ASTM D5185m >20	7	7	▲ 33
Glycol	%	*ASTM D2982	NEG	0.0	NEG

INFRA-RED	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.7	0.4	1.7
Nitration	Abs/cm	*ASTM D7624 >20	6.8	5.9	11.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.6	22.2	25.1

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	19.6	19.0	20.9
Base Number (BN)	mg KOH/g	ASTM D2896 9.4	10.6	10.4	10.7



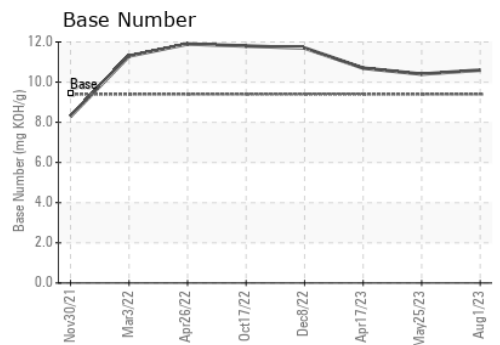
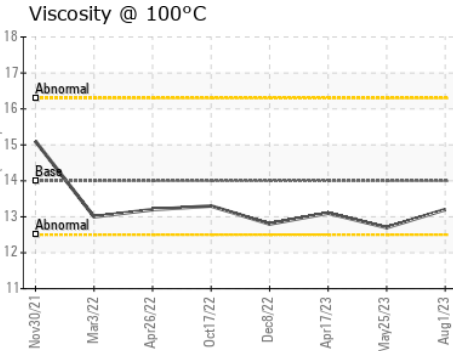
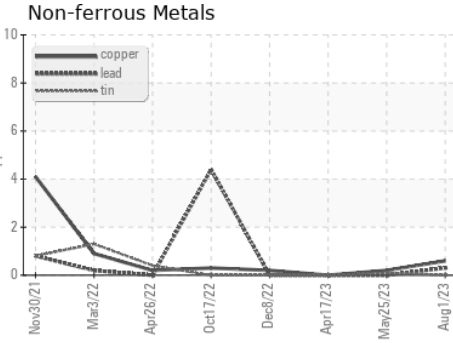
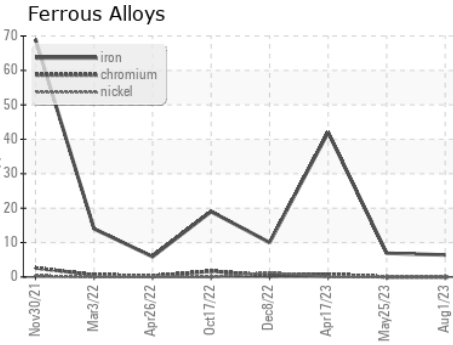
OIL ANALYSIS REPORT



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	13.2	12.7	13.1

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0834150 **Received** : 14 Aug 2023
Lab Number : **05923157** **Diagnosed** : 15 Aug 2023
Unique Number : 10603104 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: Glycol, TBN)

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 WICHITA, KS
 US 67213
 Contact: DOUG KING
 doug.king@sherwood.net
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 F: x:

Certificate L2367
 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)