



PROBLEM SUMMARY

Sample Rating Trend



GLYCOL



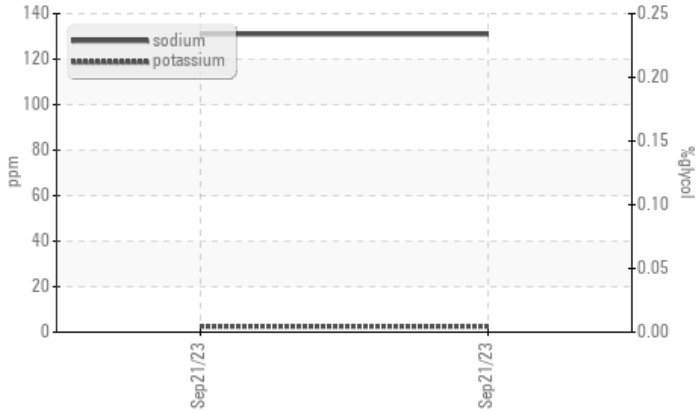
Machine Id
SZLG232703

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 15W40 (--- QTS)

COMPONENT CONDITION SUMMARY

▲ Glycol Contamination



▲ Viscosity @ 100°C



RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL			---	---
Sodium	ppm	ASTM D5185m	>158	▲ 131	---
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 11.5	---

Customer Id: DOLGUL
Sample No.: WC0847148
Lab Number: 05964468
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL



Machine Id

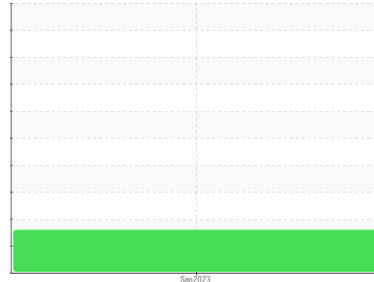
SZLG232703

Component

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 15W40 (--- QTS)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Fuel content negligible. Test for glycol is negative.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0847148	---	---
Sample Date	Client Info	21 Sep 2023	---	---
Machine Age	hrs	Client Info	1250	---
Oil Age	hrs	Client Info	1250	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	22	---
Chromium	ppm	ASTM D5185m >20	2	---
Nickel	ppm	ASTM D5185m >4	0	---
Titanium	ppm	ASTM D5185m	0	---
Silver	ppm	ASTM D5185m >3	0	---
Aluminum	ppm	ASTM D5185m >20	7	---
Lead	ppm	ASTM D5185m >40	0	---
Copper	ppm	ASTM D5185m >330	8	---
Tin	ppm	ASTM D5185m >15	<1	---
Vanadium	ppm	ASTM D5185m	0	---
Cadmium	ppm	ASTM D5185m	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	113	---
Barium	ppm	ASTM D5185m 10	0	---
Molybdenum	ppm	ASTM D5185m 100	62	---
Manganese	ppm	ASTM D5185m	1	---
Magnesium	ppm	ASTM D5185m 450	339	---
Calcium	ppm	ASTM D5185m 3000	1823	---
Phosphorus	ppm	ASTM D5185m 1150	984	---
Zinc	ppm	ASTM D5185m 1350	1203	---
Sulfur	ppm	ASTM D5185m 4250	3930	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	7	---
Sodium	ppm	ASTM D5185m >158	▲ 131	---
Potassium	ppm	ASTM D5185m >20	2	---
Fuel	%	ASTM D3524 >5	0.9	---
Glycol	%	*ASTM D2982	NEG	---

INFRA-RED

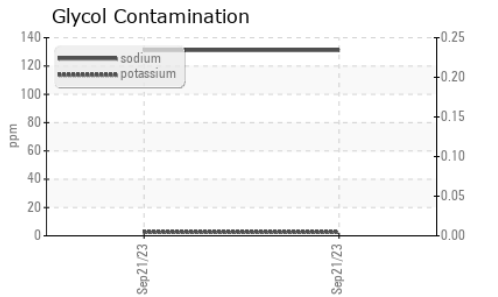
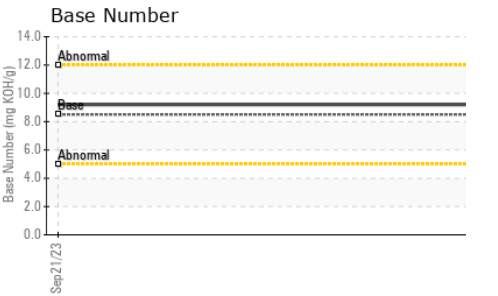
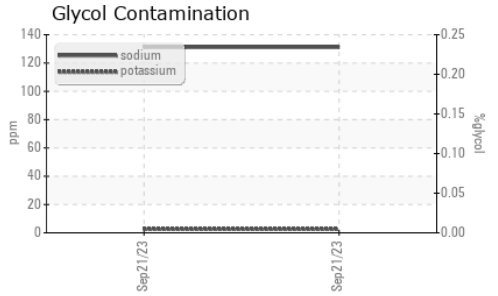
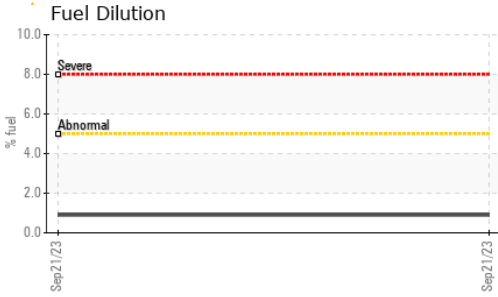
method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.1	---
Nitration	Abs/cm	*ASTM D7624 >20	7.5	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.9	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	17.2	---
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	9.2	---



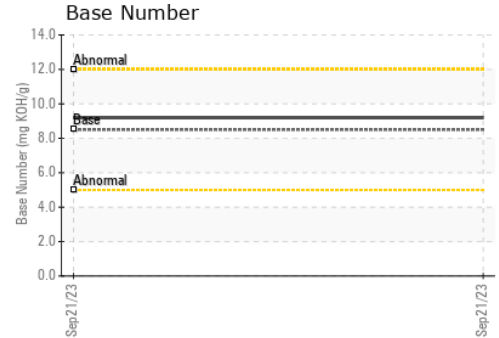
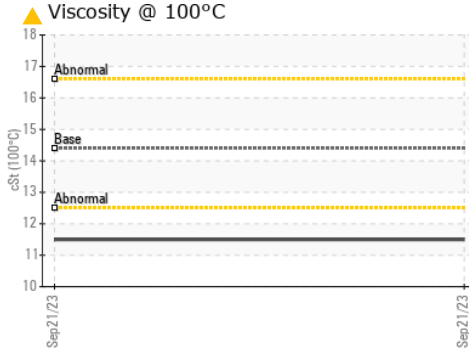
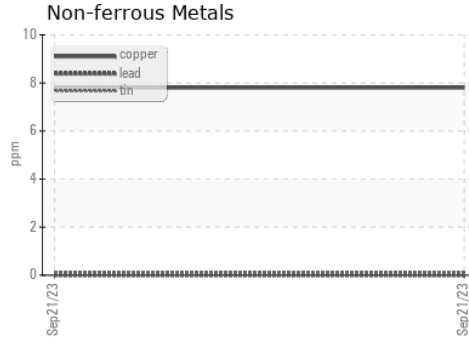
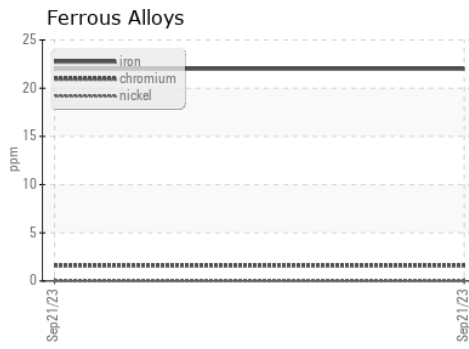
OIL ANALYSIS REPORT



VISUAL	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	14.4	▲ 11.5	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0847148 **Received** : 29 Sep 2023
Lab Number : 05964468 **Diagnosed** : 03 Oct 2023
Unique Number : 10671019 **Diagnostician** : Jonathan Hester
Test Package : FLEET (Additional Tests: FuelDilution, Glycol, PercentFuel)

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)

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