



PROBLEM SUMMARY

Sample Rating Trend



GLYCOL



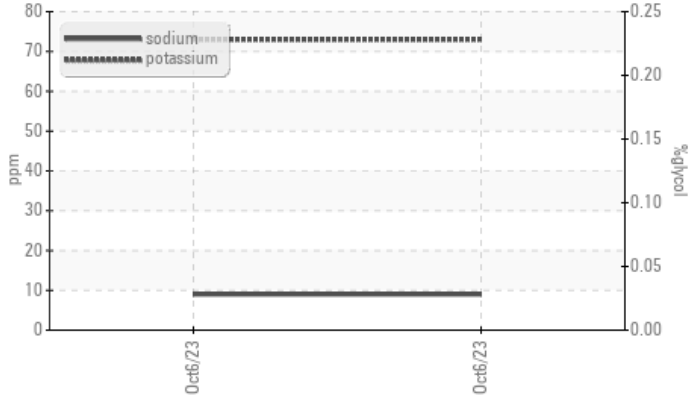
Machine Id
T-910

Component
Diesel Engine

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

COMPONENT CONDITION SUMMARY

▲ Glycol Contamination



▲ Viscosity @ 100°C



RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Potassium	ppm	ASTM D5185m	>20	▲ 73	---	---
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 11.6	---	---

Customer Id: EAICLA
Sample No.: WC0865159
Lab Number: 05994011
Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
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Customer Service +1 1-800-237-1369
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RECOMMENDED ACTIONS

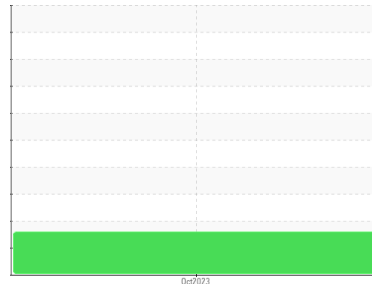
There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id

T-910

Component

Diesel Engine

Fluid

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

DIAGNOSIS

▲ Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

▲ 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	WC0865159	---	---
Sample Date	Client Info	06 Oct 2023	---	---
Machine Age	mls	Client Info	25036	---
Oil Age	mls	Client Info	0	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	52	---
Chromium	ppm	ASTM D5185m >20	2	---
Nickel	ppm	ASTM D5185m >4	<1	---
Titanium	ppm	ASTM D5185m	<1	---
Silver	ppm	ASTM D5185m >3	<1	---
Aluminum	ppm	ASTM D5185m >20	18	---
Lead	ppm	ASTM D5185m >40	3	---
Copper	ppm	ASTM D5185m >330	41	---
Tin	ppm	ASTM D5185m >15	4	---
Vanadium	ppm	ASTM D5185m	0	---
Cadmium	ppm	ASTM D5185m	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	22	---
Barium	ppm	ASTM D5185m 10	25	---
Molybdenum	ppm	ASTM D5185m 100	9	---
Manganese	ppm	ASTM D5185m	6	---
Magnesium	ppm	ASTM D5185m 450	626	---
Calcium	ppm	ASTM D5185m 3000	1265	---
Phosphorus	ppm	ASTM D5185m 1150	697	---
Zinc	ppm	ASTM D5185m 1350	777	---
Sulfur	ppm	ASTM D5185m 4250	3196	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	46	---
Sodium	ppm	ASTM D5185m >158	9	---
Potassium	ppm	ASTM D5185m >20	▲ 73	---
Fuel	%	ASTM D3524 >5	0.5	---
Glycol	%	*ASTM D2982	NEG	---

INFRA-RED

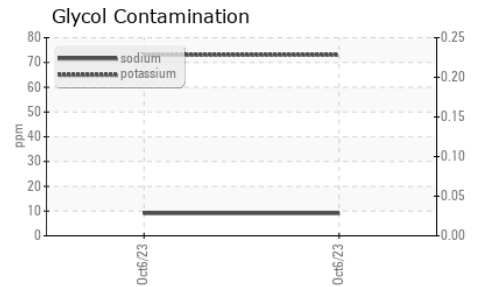
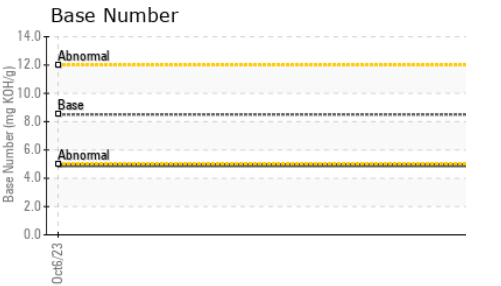
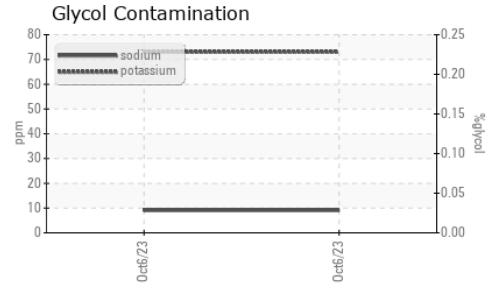
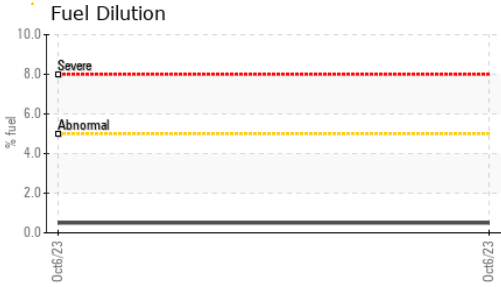
method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.4	---
Nitration	Abs/cm	*ASTM D7624 >20	10.7	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.5	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	18.9	---
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	4.9	---



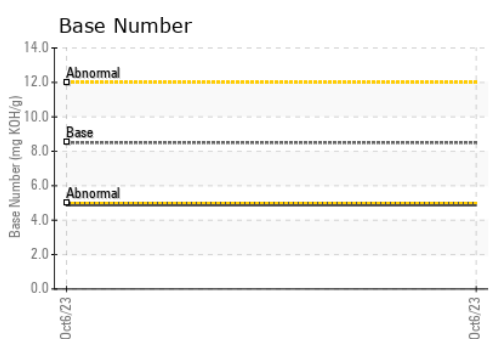
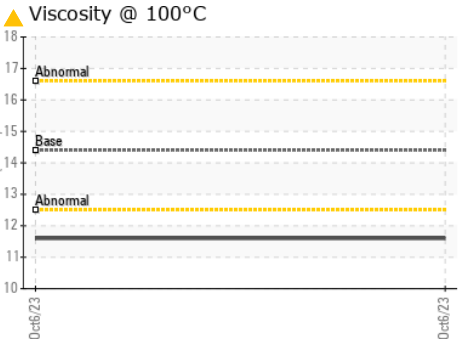
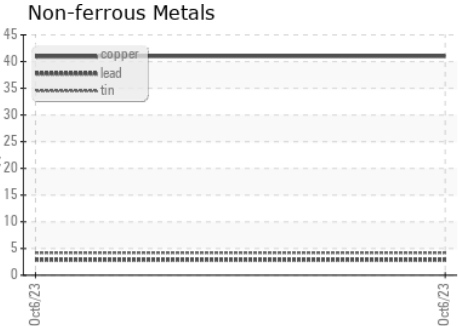
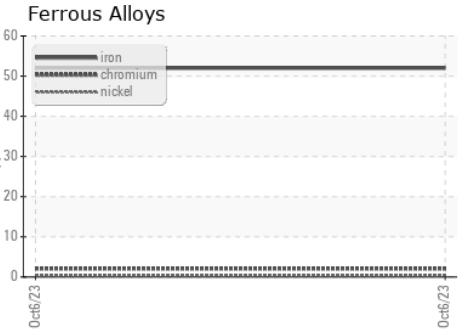
OIL ANALYSIS REPORT



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	▲ 11.6	---	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0865159 **Received** : 31 Oct 2023
Lab Number : 05994011 **Diagnosed** : 03 Nov 2023
Unique Number : 10722371 **Diagnostician** : Jonathan Hester
Test Package : CONST (Additional Tests: FuelDilution, Glycol, PercentFuel, TBN)

EAI EQUIPMENT A DIV OF PLEASANT CONSTRUCTION INC
 24024 FREDERICK ROAD
 CLARKSBURG, MD
 US 20871
 Contact: Service Manager

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:
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