

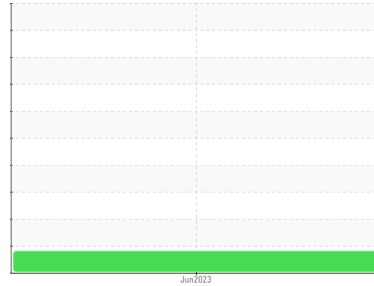


PROBLEM SUMMARY

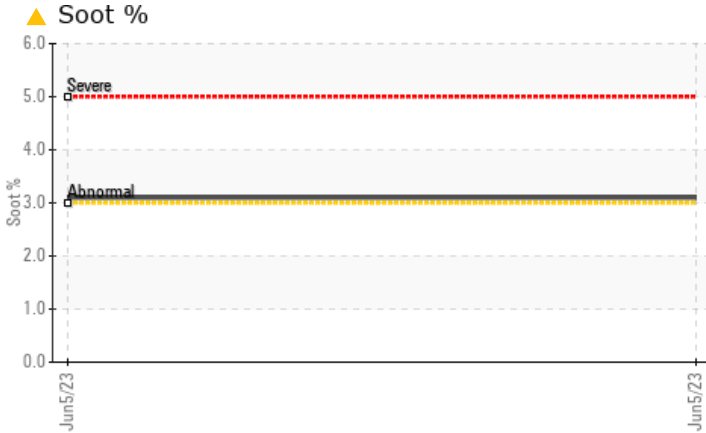
Sample Rating Trend

SOOT

Area
[62005596773]
Machine Id
91
Component
Diesel Engine
Fluid
NOT GIVEN (--- QTS)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL		---	---
Soot %	%	*ASTM D7844 >3	▲ 3.1	---

Customer Id: CASYANNC
Sample No.: WC0800000
Lab Number: 05870077
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
Wes Davis +1 905-569-8600 x223
wesd@wearcheck.ca

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

RECOMMENDED ACTIONS

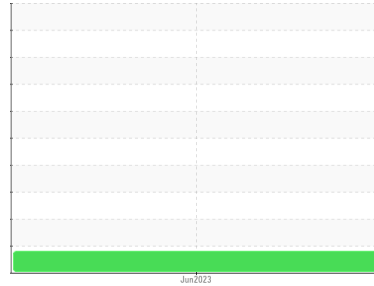
Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Information Required	---	---	?	Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the component make and model with your next sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



SOOT



Area
[62005596773]
 Machine Id
91
 Component
Diesel Engine
 Fluid
NOT GIVEN (--- QTS)

DIAGNOSIS

▲ Recommendation

We recommend that you drain the oil from the component if this has not already been done. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

▲ Contamination

Light concentration of carbon/soot present in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0800000	---	---
Sample Date	Client Info		05 Jun 2023	---	---
Machine Age	mls Client Info		229439	---	---
Oil Age	mls Client Info		0	---	---
Oil Changed	Client Info		Not Chngd	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>100	48	---	---
Chromium	ppm ASTM D5185m	>20	1	---	---
Nickel	ppm ASTM D5185m	>4	0	---	---
Titanium	ppm ASTM D5185m		<1	---	---
Silver	ppm ASTM D5185m	>3	0	---	---
Aluminum	ppm ASTM D5185m	>20	4	---	---
Lead	ppm ASTM D5185m	>40	0	---	---
Copper	ppm ASTM D5185m	>330	<1	---	---
Tin	ppm ASTM D5185m	>15	0	---	---
Vanadium	ppm ASTM D5185m		0	---	---
Cadmium	ppm ASTM D5185m		0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m		67	---	---
Barium	ppm ASTM D5185m		0	---	---
Molybdenum	ppm ASTM D5185m		9	---	---
Manganese	ppm ASTM D5185m		<1	---	---
Magnesium	ppm ASTM D5185m		697	---	---
Calcium	ppm ASTM D5185m		1345	---	---
Phosphorus	ppm ASTM D5185m		1058	---	---
Zinc	ppm ASTM D5185m		1239	---	---
Sulfur	ppm ASTM D5185m		4468	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	6	---	---
Sodium	ppm ASTM D5185m		2	---	---
Potassium	ppm ASTM D5185m	>20	2	---	---

INFRA-RED

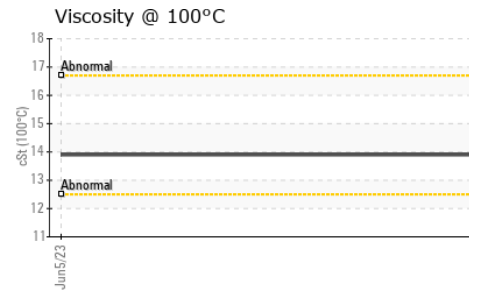
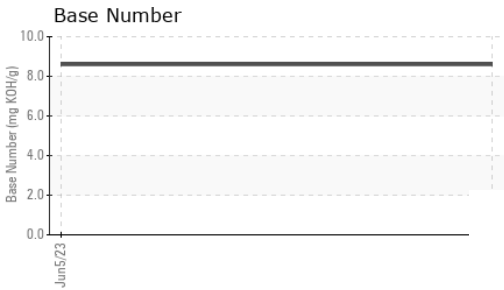
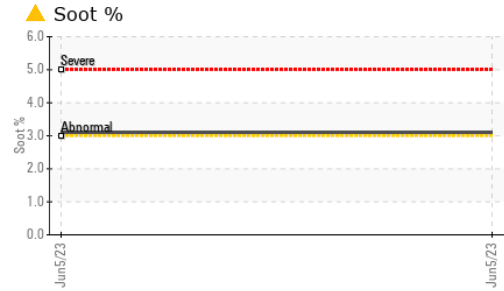
	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3	▲ 3.1	---	---
Nitration	Abs/cm *ASTM D7624	>20	10.5	---	---
Sulfation	Abs/.1mm *ASTM D7415	>30	25.6	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	15.7	---	---
Base Number (BN)	mg KOH/g ASTM D2896		8.6	---	---



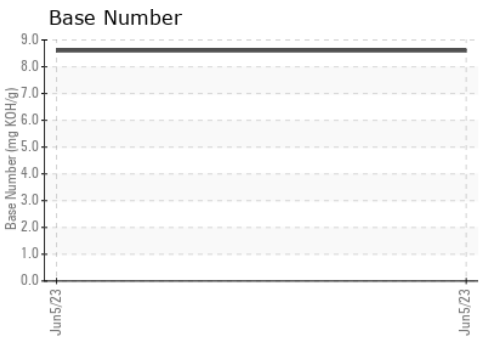
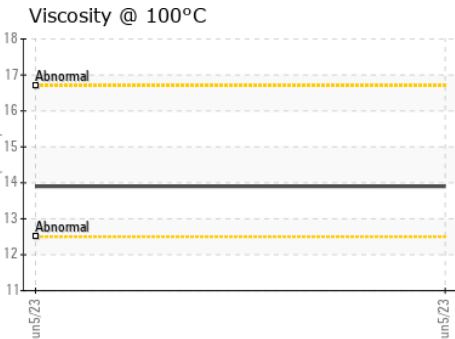
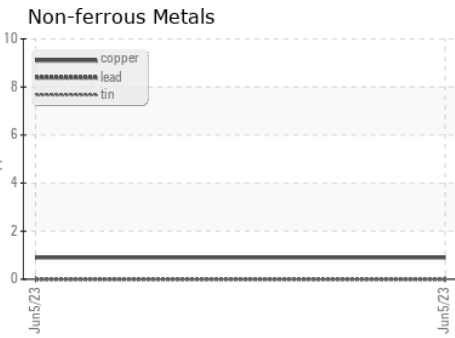
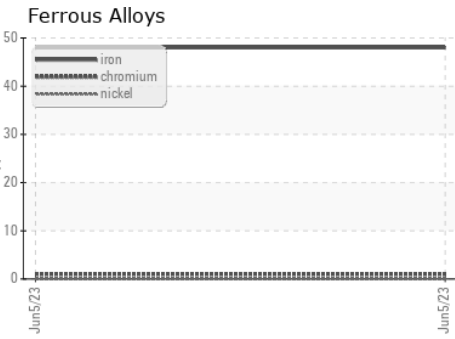
OIL ANALYSIS REPORT



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	13.9	---	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0800000 Received : 09 Jun 2023
 Lab Number : 05870077 Diagnosed : 12 Jun 2023
 Unique Number : 10509861 Diagnostician : Wes Davis
 Test Package : FLEET

CASWELL COUNTY SCHOOL BUS
 353 COUNTY HOME ROAD
 YANCEYVILLE, NC
 US 27379
 Contact: DEBRA MOORE
 debra.moore@caswell.k12.nc.us
 T: (336)694-4116
 F:

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)