



PROBLEM SUMMARY

Sample Rating Trend



FUEL



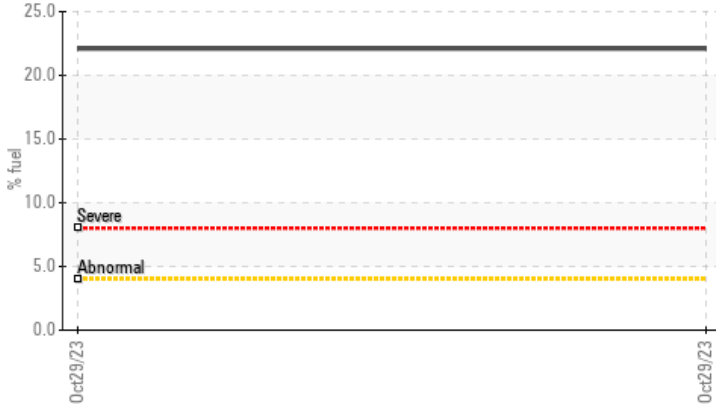
Machine Id
NO UNIT WC0874968

Component
Gasoline Engine

Fluid
NOT GIVEN (--- LTR)

COMPONENT CONDITION SUMMARY

Fuel Dilution



RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. 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		SEVERE		---	---
Fuel	%	ASTM D7593*	>4.0	22.1	---

Customer Id: OAKSTE
 Sample No.: WC0874968
 Lab Number: 02592793
 Test Package: MAR 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Kevin Marson +1 (289)291-4644 x4644
Kevin.Marson@wearcheck.com

To change component or sample information:
 Gloria Gonzalez +1 (289)291-4643 x4643
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RECOMMENDED ACTIONS

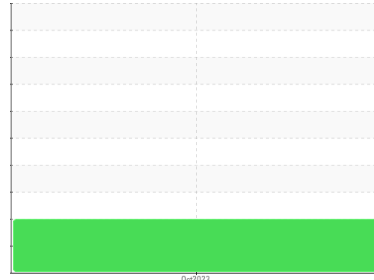
Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Information Required	---	---	?	Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the component make and model with your next sample.
Check Fuel/injector System	---	---	?	We advise that you check the fuel injection system.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



FUEL

Machine Id
NO UNIT WC0874968

Component
Gasoline Engine

Fluid
NOT GIVEN (--- LTR)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. 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

There is a high amount of fuel present in the oil. The water content is negligible. Tests confirm the presence of fuel 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		WC0874968	---	---
Sample Date	Client Info		29 Oct 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			SEVERE	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	67	---
Chromium	ppm	ASTM D5185(m)	>20	4	---
Nickel	ppm	ASTM D5185(m)	>5	5	---
Titanium	ppm	ASTM D5185(m)		0	---
Silver	ppm	ASTM D5185(m)	>2	<1	---
Aluminum	ppm	ASTM D5185(m)	>40	19	---
Lead	ppm	ASTM D5185(m)	>50	<1	---
Copper	ppm	ASTM D5185(m)	>155	2	---
Tin	ppm	ASTM D5185(m)	>10	<1	---
Antimony	ppm	ASTM D5185(m)		0	---
Vanadium	ppm	ASTM D5185(m)		0	---
Beryllium	ppm	ASTM D5185(m)		0	---
Cadmium	ppm	ASTM D5185(m)		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		38	---
Barium	ppm	ASTM D5185(m)		<1	---
Molybdenum	ppm	ASTM D5185(m)		46	---
Manganese	ppm	ASTM D5185(m)		<1	---
Magnesium	ppm	ASTM D5185(m)		261	---
Calcium	ppm	ASTM D5185(m)		965	---
Phosphorus	ppm	ASTM D5185(m)		457	---
Zinc	ppm	ASTM D5185(m)		543	---
Sulfur	ppm	ASTM D5185(m)		1414	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

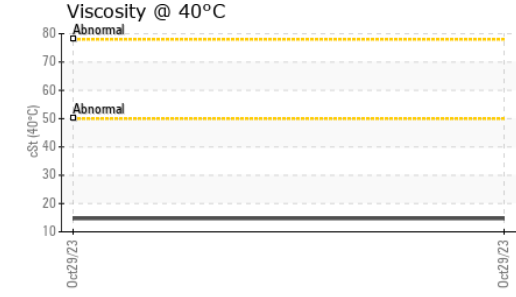
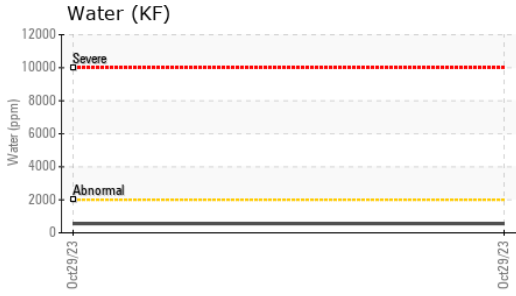
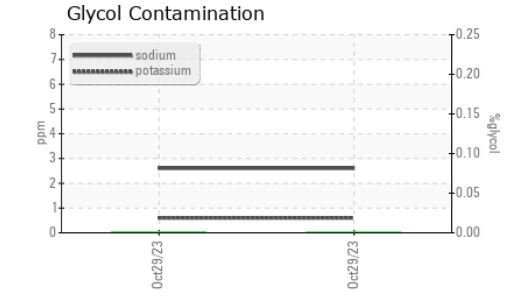
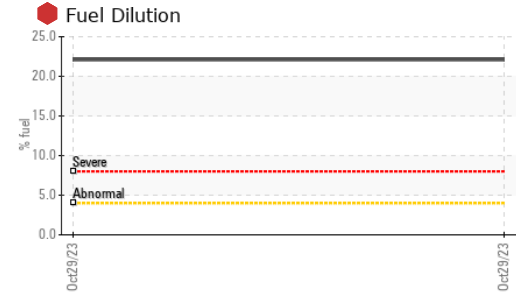
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	6	---
Sodium	ppm	ASTM D5185(m)	>400	3	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---
Fuel	%	ASTM D7593*	>4.0	22.1	---
Water	%	ASTM D6304*	>0.2	0.055	---
ppm Water	ppm	ASTM D6304*	>2000	558.8	---
Glycol	%	ASTM D7922*		0.0	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	---
Nitration	Abs/cm	ASTM D7624*	>20	8.5	---
Sulfation	Abs.1mm	ASTM D7415*	>30	15.6	---



OIL ANALYSIS REPORT

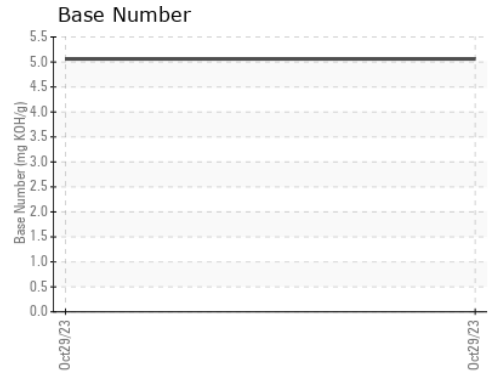
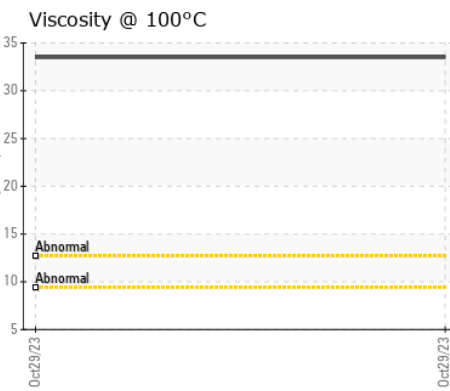
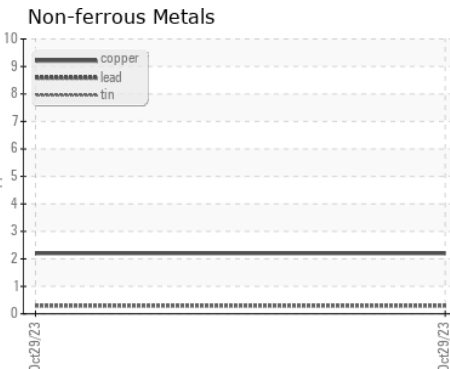
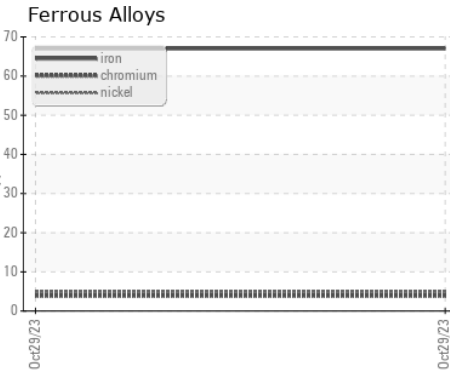


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	9.0	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		5.06	---	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		14.7	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		33.5	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0874968 **Received** : 30 Oct 2023
Lab Number : **02592793** **Diagnosed** : 03 Nov 2023
Unique Number : 5669872 **Diagnostician** : Kevin Marson
Test Package : MAR 2 (Additional Tests: FUELDILUTION, GLYCOL, KF, KV40, PercentFuel, VI)

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.