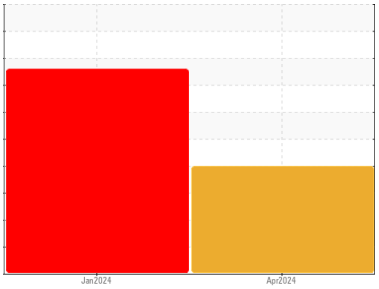
OIL ANALYSIS REPORT

Sample Rating Trend



FUEL

Machine Id
HONDA 1HGCY1F36PA800191
Component
Gasoline Engine
Fluid
SAE 0W20 (--- GAL)

DIAGNOSIS

▲ Recommendation
We advise that you check the fuel injection system. We advise that you check for visible metal particles in the oil. 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.

▲ Wear
Light concentration of visible metal present.

▲ Contamination
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

▲ Fluid Condition
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0779573**	WC0779574	---
Sample Date		Client Info		**03 Apr 2024**	05 Jan 2024	---
Machine Age	kms	Client Info		**21834**	16285	---
Oil Age	kms	Client Info		**5549**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**SEVERE**	SEVERE	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	---
Glycol		WC Method		**NEG**	▲ 0.021	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	**35**	115	---
Chromium	ppm	ASTM D5185(m)	>20	**<1**	2	---
Nickel	ppm	ASTM D5185(m)	>5	**<1**	<1	---
Titanium	ppm	ASTM D5185(m)		**0**	0	---
Silver	ppm	ASTM D5185(m)	>2	**0**	0	---
Aluminum	ppm	ASTM D5185(m)	>40	**16**	55	---
Lead	ppm	ASTM D5185(m)	>50	**0**	2	---
Copper	ppm	ASTM D5185(m)	>155	**10**	33	---
Tin	ppm	ASTM D5185(m)	>10	**0**	<1	---
Antimony	ppm	ASTM D5185(m)		**0**	0	---
Vanadium	ppm	ASTM D5185(m)		**0**	<1	---
Beryllium	ppm	ASTM D5185(m)		**0**	0	---
Cadmium	ppm	ASTM D5185(m)		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**111**	67	---
Barium	ppm	ASTM D5185(m)		**<1**	2	---
Molybdenum	ppm	ASTM D5185(m)		**158**	591	---
Manganese	ppm	ASTM D5185(m)		**3**	18	---
Magnesium	ppm	ASTM D5185(m)		**382**	13	---
Calcium	ppm	ASTM D5185(m)		**1183**	1607	---
Phosphorus	ppm	ASTM D5185(m)		**601**	598	---
Zinc	ppm	ASTM D5185(m)		**675**	662	---
Sulfur	ppm	ASTM D5185(m)		**2121**	2051	---
Lithium	ppm	ASTM D5185(m)		**<1**	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	**42**	▲ 169	---
Sodium	ppm	ASTM D5185(m)	>400	**4**	16	---
Potassium	ppm	ASTM D5185(m)	>20	**6**	4	---
Fuel	%	ASTM D7593*	>4.0	▲ **11.9**	▲ 8.1	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	0	---
Nitration	Abs/cm	ASTM D7624*	>20	**11.2**	13.4	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**20.5**	30.2	---

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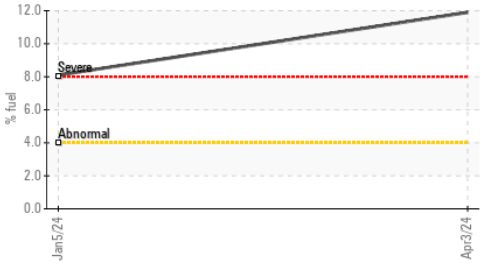
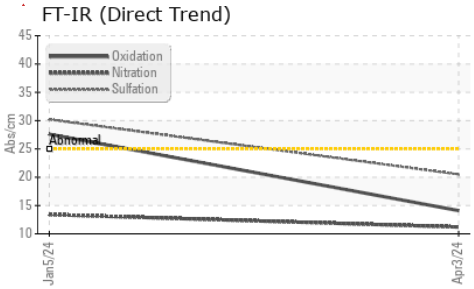
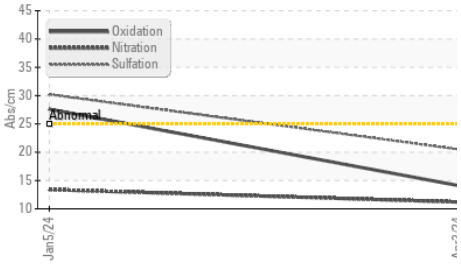
▲ Fuel Dilution



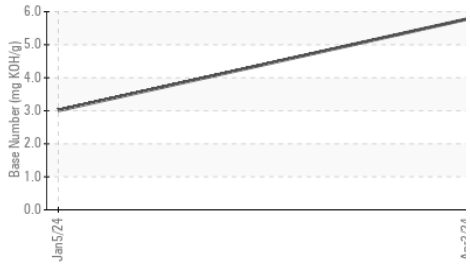
FT-IR (Direct Trend)



FT-IR (Direct Trend)



Base Number



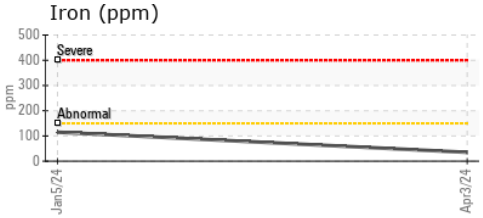
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**14.1**	27.6	---
Base Number (BN)	mg KOH/g	ASTM D2896*		**5.78**	3.01	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	▲ **LIGHT**	▲ VLITE	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	---
Silt	scalar	Visual*	NONE	**NONE**	NONE	---
Debris	scalar	Visual*	NONE	**VLITE**	NONE	---
Sand/Dirt	scalar	Visual*	NONE	**VLITE**	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	---

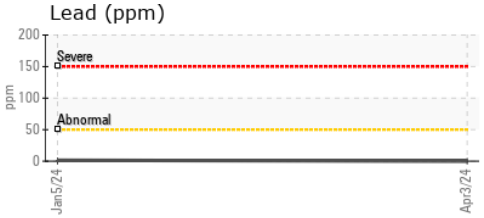
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	8.3	▲ **5.4**	▲ 5.9	---

GRAPHS

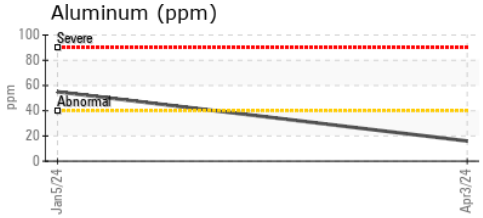
Iron (ppm)



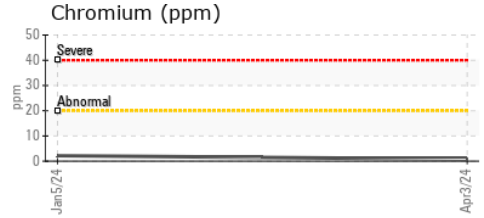
Lead (ppm)



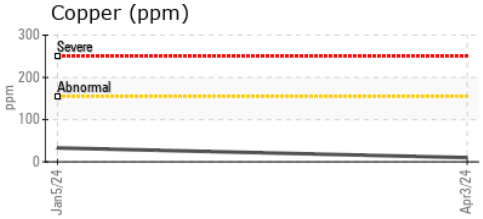
Aluminum (ppm)



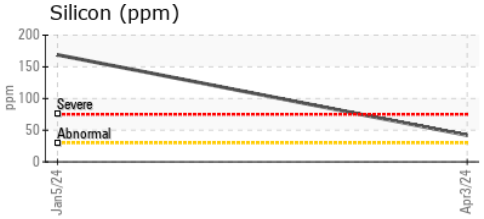
Chromium (ppm)



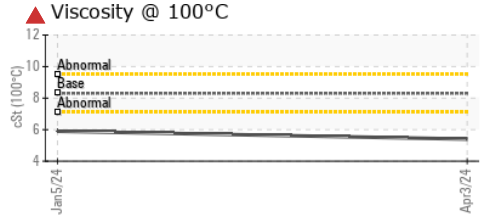
Copper (ppm)



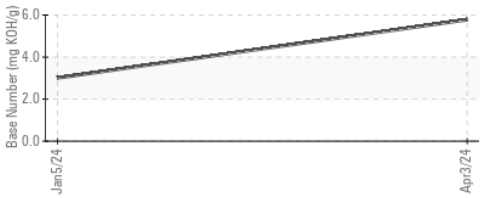
Silicon (ppm)



▲ Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0779573 **Received** : 08 Apr 2024
Lab Number : 02627298 **Tested** : 10 Apr 2024
Unique Number : 5760430 **Diagnosed** : 10 Apr 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: BottomAnalysis, FILTERPATCH, PercentFuel)

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.

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