

OIL ANALYSIS REPORT

Sample Rating Trend

FUEL

HONDA 2HKRS4H74PH104708

Gasoline Engine

PETRO CANADA SUPREME SYNTHETIC 0W20 (--- GAL)

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.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

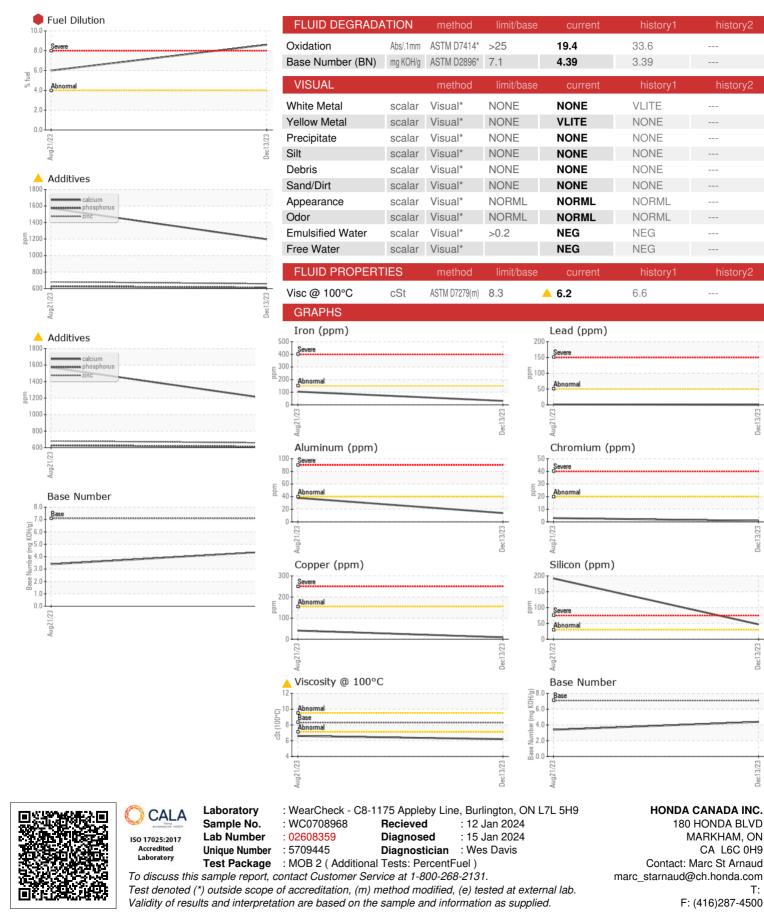
Fluid Condition

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 due to the presence of contaminants.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0708968	WC0708977	
Sample Date		Client Info		13 Dec 2023	21 Aug 2023	
Machine Age	kms	Client Info		22759	13419	
Oil Age	kms	Client Info		9340	0	
Oil Changed		Client Info		Not Changd	N/A	
Sample Status				SEVERE	ABNORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	▲ 0.033	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	31	104	
Chromium	ppm	ASTM D5185(m)	>20	<1	3	
Nickel	ppm	ASTM D5185(m)	>5	<1	0	
Titanium	ppm	ASTM D5185(m)		0	<1	
Silver	ppm	ASTM D5185(m)	>2	0	0	
Aluminum	ppm	ASTM D5185(m)	>40	14	38	
Lead	ppm	ASTM D5185(m)	>50	0	1	
Copper	ppm	ASTM D5185(m)	>155	9	41	
Tin	ppm	ASTM D5185(m)	>10	0	<1	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		<1	3	
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)	230	4 5	84	
Barium	ppm	ASTM D5185(m)	0	<1	3	
Molybdenum	ppm	ASTM D5185(m)	74	153	598	
Manganese	ppm	ASTM D5185(m)	0	3	16	
Magnesium	ppm	ASTM D5185(m)	556	387	11	
Calcium	ppm	ASTM D5185(m)	1293	1197	1571	
Phosphorus	ppm	ASTM D5185(m)	833	612	627	
Zinc	ppm	ASTM D5185(m)	808	658	681	
Sulfur	ppm	ASTM D5185(m)	2676	2251	1966	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	47	192	
Sodium	ppm	ASTM D5185(m)	>400	4	13	
Potassium	ppm	ASTM D5185(m)	>20	4	1 21	
Fuel	%	ASTM D7593*	>4.0	8.6	▲ 6	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	
Nitration	Abs/cm	ASTM D7624*	>20	13.6	14.6	
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.5	35.6	



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