

PROBLEM SUMMARY

Sample Rating Trend





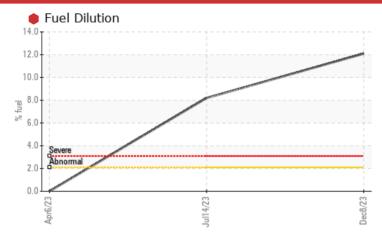


RONI Machine 389 Component

Diesel Engine

PETRO CANADA 10W30 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS										
Sample Status				SEVERE	SEVERE	NORMAL				
Fuel	%	ASTM D7593*	>2.1	12.1	● 8.2	<1.0				

Customer Id: RONVAU **Sample No.:** WC0872964 Lab Number: 02603069 Test Package: MOBCE



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: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

Action Status Date Done By Description Resample --- ? We recommend an early resample to monitor this condition. Check Fuel/injector System ?? We advise that you check the fuel injection system.

HISTORICAL DIAGNOSIS

14 Jul 2023 Diag: Wes Davis

FUEL



We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel 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.



06 Apr 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.





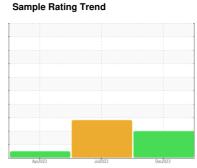
OIL ANALYSIS REPORT



RONI 389 Component

Diesel Engine

PETRO CANADA 10W30 (--- GAL)





DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

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

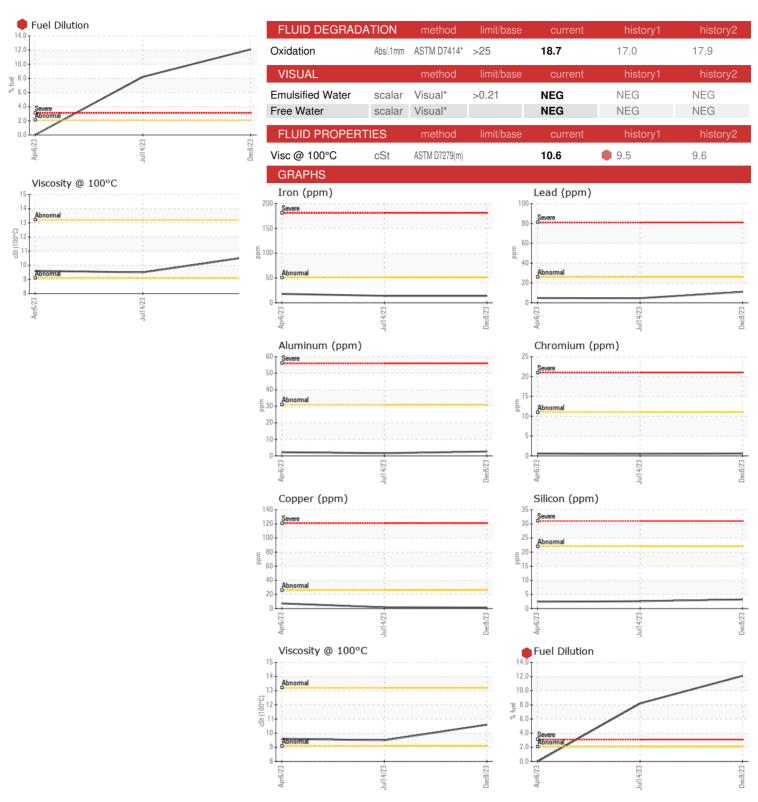
Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

oo (GAL)		Ap	r2023	Jul2023 Dec20	23	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0872964	LH0270767	LH0232539
Sample Date		Client Info		08 Dec 2023	14 Jul 2023	06 Apr 2023
Machine Age	hrs	Client Info		0	2068	1500
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>51	14	14	18
Chromium	ppm	ASTM D5185(m)	>11	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>31	3	2	2
Lead	ppm	ASTM D5185(m)	>26	11	5	5
Copper	ppm	ASTM D5185(m)	>26	1	2	7
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		1	1	4
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		52	53	56
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		814	880	859
Calcium	ppm	ASTM D5185(m)		876	916	986
Phosphorus	ppm	ASTM D5185(m)		822	984	937
Zinc	ppm	ASTM D5185(m)		1019	1088	1068
Sulfur	ppm	ASTM D5185(m)		2161	2349	2393
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>22	3	3	2
Sodium	ppm	ASTM D5185(m)		2	2	3
Potassium	ppm	ASTM D5185(m)	>20	0	<1	1
Fuel	%	ASTM D7593*	>2.1	12.1	● 8.2	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.3	0.3	0.1
Nitration	Abs/cm	ASTM D7624*	>20	10.9	9.8	11.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.8	19.3	22.5



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 RONI/IRON SHORE EXCAVATING LTD.

: 5696154

: WC0872964 Recieved : 02603069

Diagnosed Diagnostician : Wes Davis

: 14 Dec 2023 : 15 Dec 2023

Test Package : MOBCE (Additional Tests: PercentFuel)

100 MACINTOSH BLVD VAUGHAN, ON CA L4K 4P3 Contact: Service Team

service.team@roni.ca T:

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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