

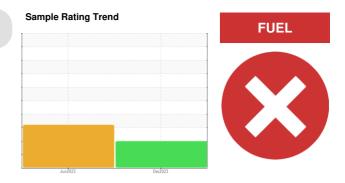
# **PROBLEM SUMMARY**

# ORIN CONTRACTORS

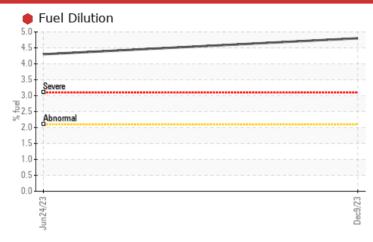
878

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			
Fuel	%	ASTM D7593*	>2.1	<b>4.8</b>	4.3			

Customer Id: RONVAU
Sample No.: WC0872896
Lab Number: 02603071
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

RECOMMENDED ACTIONS							
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

### 24 Jun 2023 Diag: Kevin Marson

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. Copper ppm levels are abnormal. Bearing wear is indicated. 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 as a result of the abnormal and/or severe wear.





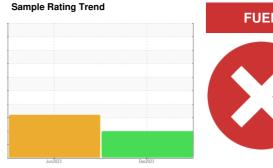
# **OIL ANALYSIS REPORT**

# ORIN CONTRACTORS

878

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.

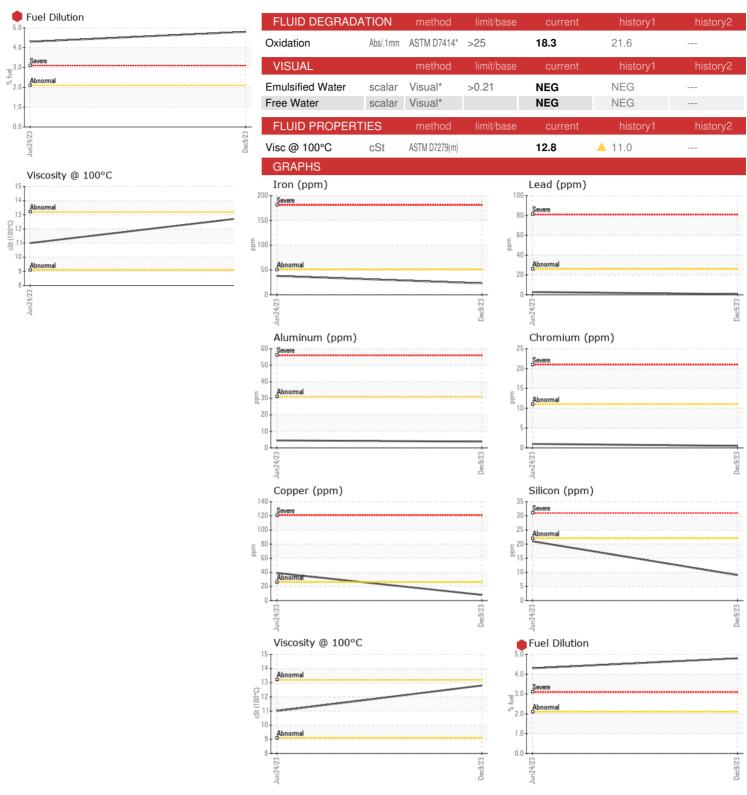
### **Fluid Condition**

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

			Jun2023	Dec2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0872896	LH0256901	
Sample Date		Client Info		09 Dec 2023	24 Jun 2023	
Machine Age	hrs	Client Info		0	1033	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				SEVERE	SEVERE	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.21	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>51	23	38	
Chromium	ppm	ASTM D5185(m)	>11	<1	1	
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)	>3	<1	<1	
Aluminum	ppm	ASTM D5185(m)	>31	4	4	
Lead	ppm	ASTM D5185(m)	>26	<1	3	
Copper	ppm	ASTM D5185(m)	>26	8	<b>△</b> 39	
Tin	ppm	ASTM D5185(m)	>4	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
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)		6	53	
Barium	ppm	ASTM D5185(m)		<1	2	
Molybdenum	ppm	ASTM D5185(m)		69	137	
Manganese	ppm	ASTM D5185(m)		0	<1	
Magnesium	ppm	ASTM D5185(m)		904	798	
Calcium	ppm	ASTM D5185(m)		1024	1312	
Phosphorus	ppm	ASTM D5185(m)		941	880	
Zinc	ppm	ASTM D5185(m)		1170	1035	
Sulfur	ppm	ASTM D5185(m)		2446	2403	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>22	9	21	
Sodium	ppm	ASTM D5185(m)		2	7	
Potassium	ppm	ASTM D5185(m)	>20	0	<1	
Fuel	%	ASTM D7593*	>2.1	4.8	4.3	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.3	0.4	
Nitration	Abs/cm	ASTM D7624*	>20	9.4	9.9	
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.7	23.8	



# **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. : WC0872896

: 02603071 : 5696156

Recieved : 14 Dec 2023 Diagnosed Diagnostician : Wes Davis

: 15 Dec 2023

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

Test Package : MOBCE ( Additional Tests: 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.

T:

F:

service.team@roni.ca