

# **OIL ANALYSIS REPORT**



Machine Id **8136** Component **Diesel Engine** 

PETRO CANADA 10W30 (--- LTR)





# **DIAGNOSIS**

### Recommendation

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

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

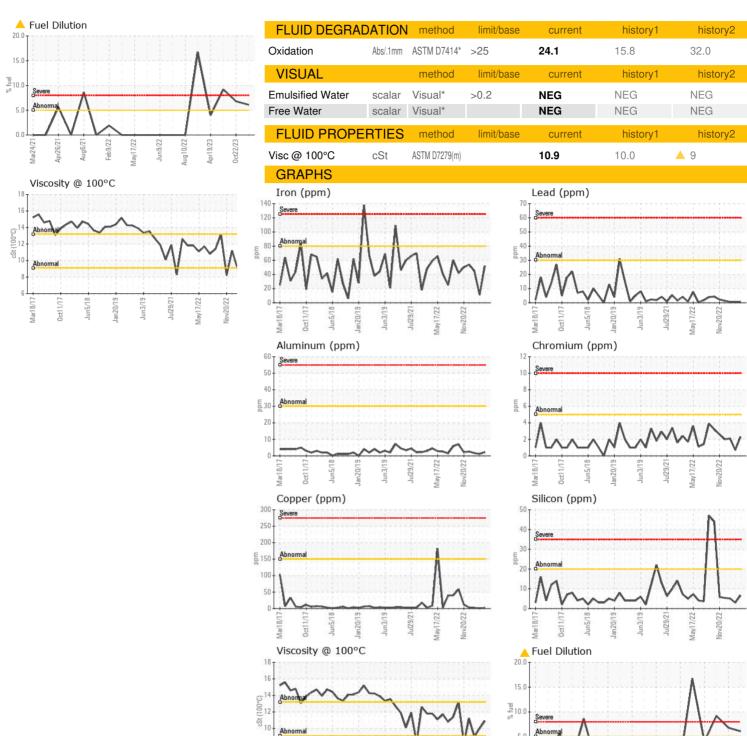
## **Fluid Condition**

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

v2017 Oc2017 Jun2018 Jan2019 Jun2019 Ju2021 May2022 Nov2022						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102650	GFL0093881	GFL0097640
Sample Date		Client Info		25 Jan 2024	22 Oct 2023	15 Oct 2023
Machine Age	hrs	Client Info		16852	0	16366
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	52	11	45
Chromium	ppm	ASTM D5185(m)	>5	2	<1	2
Nickel	ppm	ASTM D5185(m)	>2	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>30	2	1	2
Lead	ppm	ASTM D5185(m)	>30	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>150	2	<1	2
Tin	ppm	ASTM D5185(m)	>5	<1	0	<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)		2	2	2
Barium	ppm	ASTM D5185(m)		0	<1	<1
Molybdenum	ppm	ASTM D5185(m)		57	55	50
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		889	879	772
Calcium	ppm	ASTM D5185(m)		1002	951	836
Phosphorus	ppm	ASTM D5185(m)		935	933	811
Zinc	ppm	ASTM D5185(m)		1106	1070	953
Sulfur	ppm	ASTM D5185(m)		2355	2368	1984
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	7	3	5
Sodium	ppm	ASTM D5185(m)		37	11	40
Potassium	ppm	ASTM D5185(m)	>20	4	<1	4
Fuel	%	ASTM D7593*	>5	<u></u> ▲ 6.1	<b>△</b> 6.8	9.2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1.3	0.2	1.1
Nitration	Abs/cm	ASTM D7624*		12.1	6.5	11.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.1	19.4	28.0



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Laboratory Sample No. Lab Number

Unique Number

: GFL0102650 : 02611370

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW Recieved : 26 Jan 2024 Diagnosed : 5720465

: 29 Jan 2024 Diagnostician : Wes Davis

0.0

Test Package : MOB 1 ( 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.

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