

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **412028** Component **Diesel Engine**

PETRO CANADA 10W

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

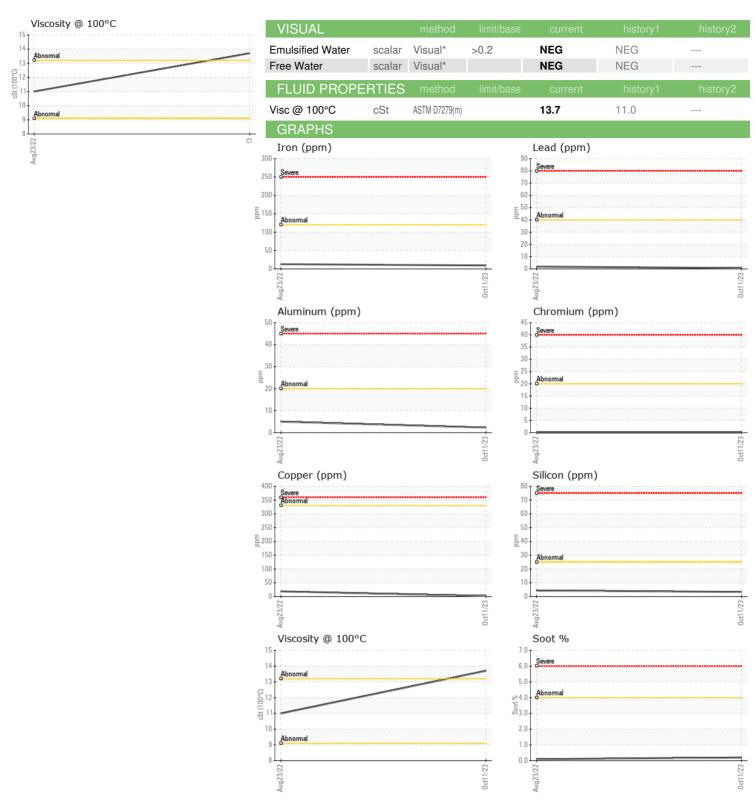
Fluid Condition

Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.

30 (36 LTR)						
,0 (30 E111)			Aug2022	0ct2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0064779	GFL0035525	
Sample Date		Client Info		11 Oct 2023	23 Aug 2022	
Machine Age	hrs	Client Info		4129	1781	
Oil Age	hrs	Client Info		600	600	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.7	
Glycol		WC Method		NEG	0.0	
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	10	13	
Chromium	ppm	ASTM D5185(m)	>20	0	0	
Nickel	ppm	ASTM D5185(m)	>5	<1	0	
Titanium	ppm	ASTM D5185(m)	>2	0	<1	
Silver	ppm	ASTM D5185(m)	>2	<1	<1	
Aluminum	ppm	ASTM D5185(m)	>20	2	5	
Lead	ppm	ASTM D5185(m)	>40	<1	2	
Copper	ppm	ASTM D5185(m)	>330	2	19	
Tin	ppm	ASTM D5185(m)	>15	<1	2	
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)		74	27	
Barium	ppm	ASTM D5185(m)		<1	0	
Molybdenum	ppm	ASTM D5185(m)		13	84	
Manganese	ppm	ASTM D5185(m)		0	<1	
Magnesium	ppm	ASTM D5185(m)		29	124	
Calcium	ppm	ASTM D5185(m)		2261	2110	
Phosphorus	ppm	ASTM D5185(m)		968	949	
Zinc	ppm	ASTM D5185(m)		1185	1115	
Sulfur	ppm	ASTM D5185(m)		2951	3057	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	4	
Sodium	ppm	ASTM D5185(m)		2	2	
Potassium	ppm	ASTM D5185(m)	>20	9	10	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.2	0.1	
Nitration	Abs/cm	ASTM D7624*	>20	8.8	9.7	
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.1	21.0	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.6	15.3	



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: GFL0064779 : 02588871

: 5657937 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 213 - Kitchener Received : 13 Oct 2023 Diagnosed

: 16 Oct 2023 Diagnostician : Kevin Marson 16 Centennial Road, Kitchener Yard Kitchener, ON

CA N2B 3G1 Contact: Keith Zehr kzehr@gflenv.com T: (226)751-4416 F: x:

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.