

OIL ANALYSIS REPORT

901075

Component **Diesel Engine**

PETRO CANADA DURON HP 15W40 (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

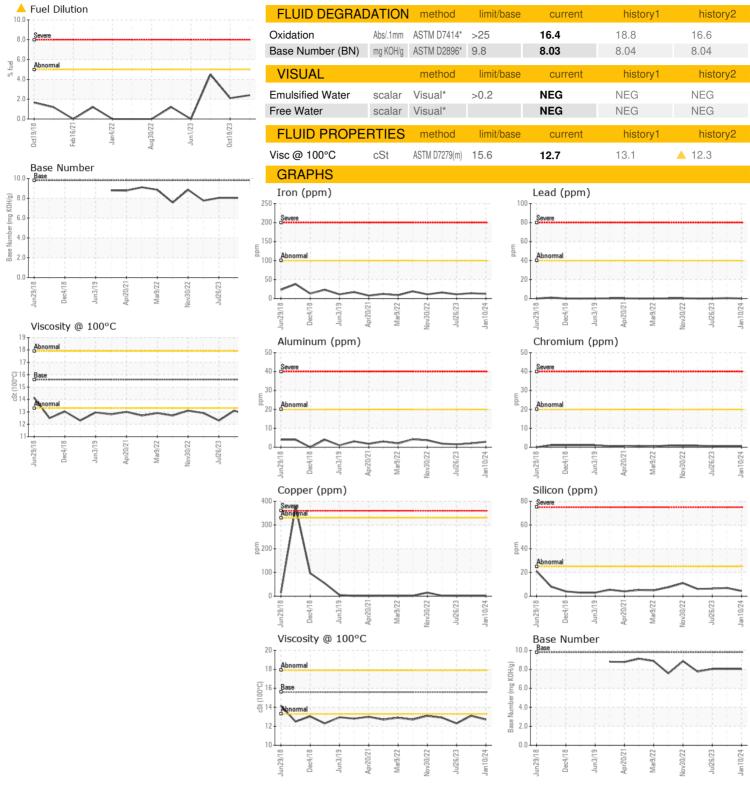
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)		Jun2018 De	2018 Jun2019 Apr202	21 Mar2022 Nov2022 Jul20	23 Jan2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0099551	GFL0091579	GFL0084290
Sample Date		Client Info		10 Jan 2024	18 Oct 2023	26 Jul 2023
Machine Age	hrs	Client Info		27501	139494	133823
Oil Age	hrs	Client Info		550	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	MARGINAL	ABNORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	12	14	11
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	2	2
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>330	1	1	1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
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)	0	2	2	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	58	59	56
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	922	960	923
Calcium	ppm	ASTM D5185(m)	1070	1101	1074	995
Phosphorus	ppm	ASTM D5185(m)	1150	1010	1028	1032
Zinc	ppm	ASTM D5185(m)	1270	1214	1224	1142
Sulfur	ppm	ASTM D5185(m)	2060	2671	2506	2431
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	7	6
Sodium	ppm	ASTM D5185(m)		4	5	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>5	<u>^</u> 2.4	▲ 2.1	△ 4.5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.6	0.7	0.5
Nitration	Abs/cm	ASTM D7624*	>20	8.9	9.5	8.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.7	21.5	20.7



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County

: GFL0099551

: 02612321 : 5721416

Recieved : 31 Jan 2024 Diagnosed : 01 Feb 2024

Diagnostician : Wes Davis

Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

Contact: GFL Calgary calgarymaintenance@gflenv.com F: (403)369-6163

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.

220 Carmek Blvd

CA T1X 1X1

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Rocky View County, AB