

# **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id **4555** Component

**Diesel Engine** 

PETRO CANADA DURON XL SYN BLEND

## **DIAGNOSIS**

### Recommendation

We advise that you check the fuel injection system. 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 high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

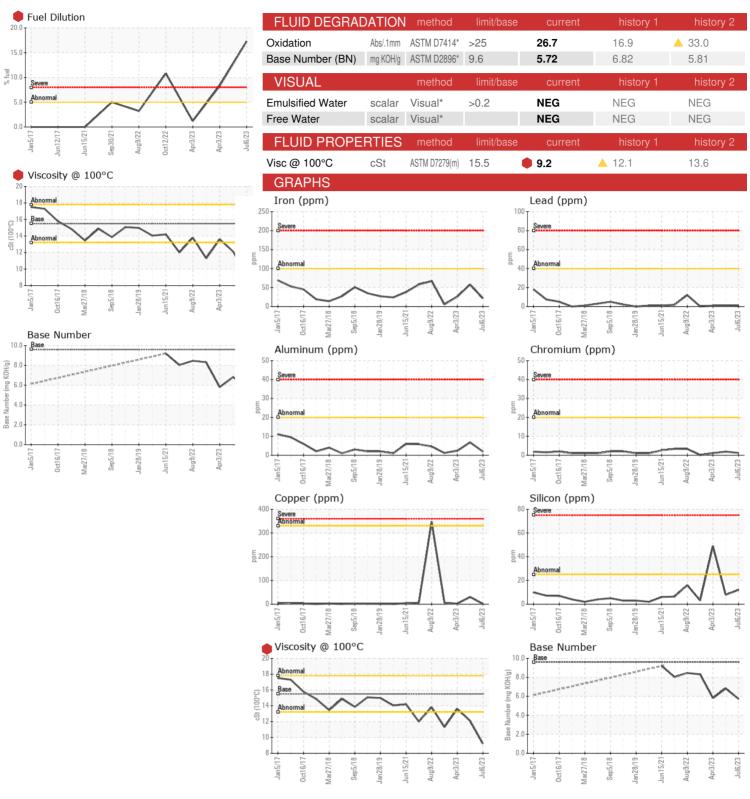
#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining 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.

15W40 (23 LTR)		lan2017 Oct2	017 Mar2018 Sep2018	Jan2019 Jun2021 Aug2022 Apri	2023 Jui202:	
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	kms kms	Client Info Client Info Client Info Client Info Client Info		GFL0084273 06 Jul 2023 674757 0 N/A SEVERE	GFL0077557 03 Apr 2023 19880 544 Changed SEVERE	GFL0077557 03 Apr 2023 19880 544 Changed ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history 1	history 2
Iron Chromium Nickel	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>100 >20 >4	22 1 0	26 1 <1	58 2 <1
Titanium Silver Aluminum	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>3 >20	0 0 2	<1 0 2	<1 0 7
Copper Tin	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>40 >330 >15	1 1 <1	<1 2 <1	<1 30 <1
Antimony Vanadium Beryllium	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 0	0 0	0 0
Cadmium ADDITIVES	ppm	ASTM D5185(m)	limit/base	0	0 biotom 1	0 history 2
Boron Barium Molybdenum	ppm ppm ppm	Method  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)	1 1 60	2 0 45	history 1 2 0 51	20 0 73
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1010 1070 1150	<1 728 798 801	<1 828 1025 907	1 1096 898 1029
Zinc Sulfur Lithium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1270 2060	890 1903 <1	971 2268 <1	1219 2568 <1
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Silicon Sodium Potassium Fuel	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593*	>25 >20 >5	12 3 <1 • 17.3	3 0 • 8.3	8 7 <1 1.2
INFRA-RED		method	limit/base	current	history 1	history 2
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	ASTM D7844* ASTM D7624* ASTM D7415*	>3 >20 >30	0.7 10.2 24.3	0.7 8.9 24.1	0 15.8 • 32.2



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CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County : GFL0084273

Received : 02568980 : 5606026

: 11 Jul 2023 Diagnosed : 12 Jul 2023 Diagnostician : Kevin Marson

Test Package : MOB 2 ( Additional Tests: PercentFuel )

To discuss this sample report, contact Customer Service at 1-800-268-2131.

220 Carmek Blvd Rocky View County, AB **CA T1X 1X1** 

Contact: GFL Calgary calgarymaintenance@gflenv.com

T: F: (403)369-6163

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.