

OIL ANALYSIS REPORT

Machine Id **801115**

Component **Diesel Engine**

PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

Sample Rating Trend



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.

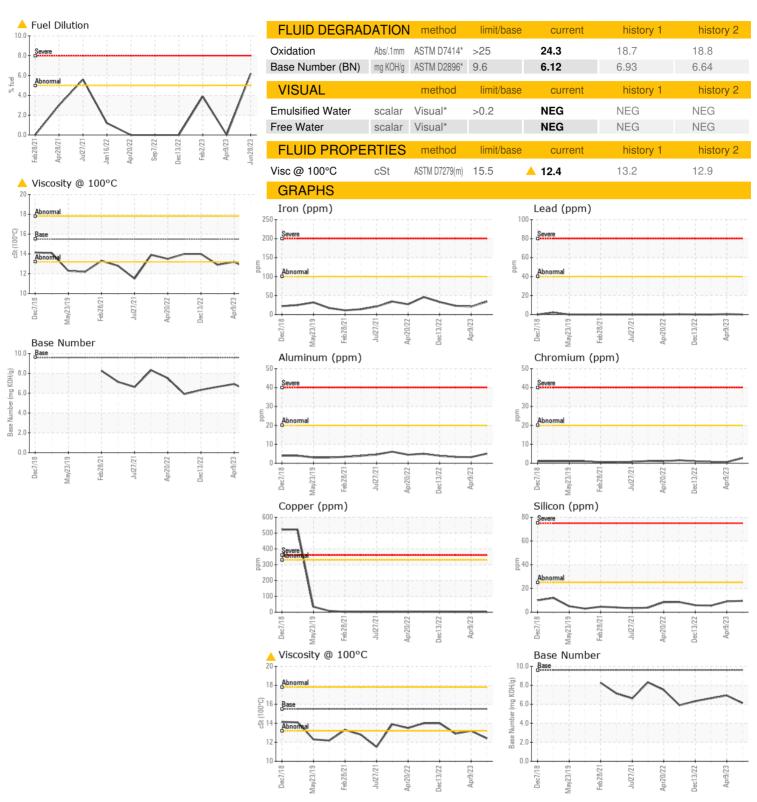
Fluid Condition

The 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 (GAL)		Dec2018 M	ay2019 Feb2021 Jul	2021 Apr2022 Dec2022	Apr2023	
SAMPLE INFORI	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0077585	GFL0077562	GFL0063764
Sample Date		Client Info		28 Jun 2023	09 Apr 2023	02 Feb 2023
Machine Age	kms	Client Info		168420	12015	11476
Oil Age	kms	Client Info		0	1164	464
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	NORMAL	MARGINAL
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	ppm	ASTM D5185(m)	>100	34	21	23
Chromium	ppm	ASTM D5185(m)	>20	3	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	5	3	3
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	<1
Antimony	ppm	ASTM D5185(m)		0	<1	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	history 1	history 2
Boron	ppm	ASTM D5185(m)	1	2	2	2
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	53	55	55
Manganese	ppm	ASTM D5185(m)	1	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	850	892	904
Calcium	ppm	ASTM D5185(m)	1070	935	1062	1082
Phosphorus	ppm	ASTM D5185(m)	1150	921	994	1035
Zinc	ppm	ASTM D5185(m)	1270	1049	1120	1139
Sulfur	ppm	ASTM D5185(m)	2060	2143	2320	2396
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m)	>25	10	9	6
Sodium	ppm	ASTM D5185(m)		7	11	9
Potassium	ppm	ASTM D5185(m)	>20	2	1	<1
Fuel	%	ASTM D7593*	>5	△ 6.2	<1.0	▲ 3.9
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	ASTM D7844*	>3	1.1	1	0.6
Nitration	Abs/cm	ASTM D7624*	>20	11.3	10.0	9.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.0	22.2	22.6



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CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number Unique Number

: 02568179

: 5605225

: GFL0077585

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

: 06 Jul 2023

: 07 Jul 2023

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

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

Contact: GFL Calgary calgarymaintenance@gflenv.com

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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.