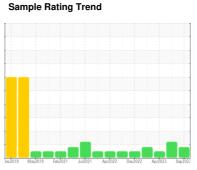


OIL ANALYSIS REPORT

Sample



FUEL



Machine Id 801115 Component

Diesel Engine

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

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.

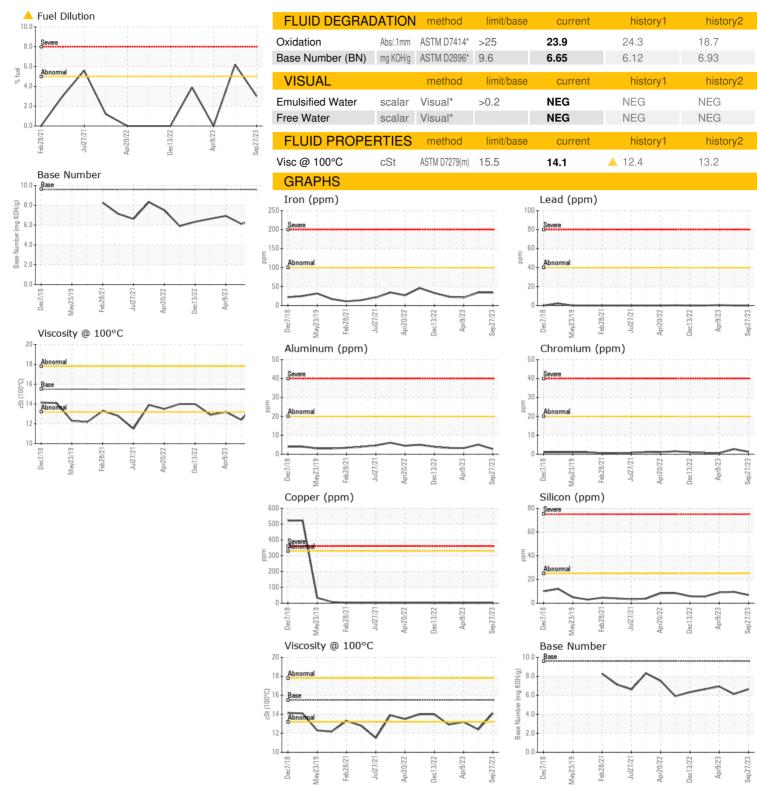
Fluid Condition

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

15W40 (GAL)		Jec2018 Ma	y2019 Feb2021 Jul202	1 Apr2022 Dec2022 Apr20	23 Sep 2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091637	GFL0077585	GFL0077562
Sample Date		Client Info		27 Sep 2023	28 Jun 2023	09 Apr 2023
Machine Age	hrs	Client Info		13129	168420	12015
Oil Age	hrs	Client Info		0	0	1164
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				MARGINAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	34	34	21
Chromium	ppm	ASTM D5185(m)	>20	1	3	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	5	3
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	2	1	1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	<1
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)	1	2	2	2
Barium	ppm	ASTM D5185(m)	1	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	60	57	53	55
Manganese	ppm	ASTM D5185(m)	1	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	889	850	892
Calcium	ppm	ASTM D5185(m)	1070	996	935	1062
Phosphorus	ppm	ASTM D5185(m)	1150	905	921	994
Zinc	ppm	ASTM D5185(m)	1270	1126	1049	1120
Sulfur	ppm	ASTM D5185(m)	2060	2272	2143	2320
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7	10	9
Sodium	ppm	ASTM D5185(m)		8	7	11
Potassium	ppm	ASTM D5185(m)	>20	<1	2	1
Fuel	%	ASTM D7593*	>5	<u>^</u> 3	△ 6.2	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1.4	1.1	1
Nitration	Abs/cm	ASTM D7624*	>20	11.6	11.3	10.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.9	25.0	22.2



OIL ANALYSIS REPORT





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 : GFL0091637

: 02587009

Received Diagnosed : 5656075

: 06 Oct 2023 Diagnostician : Wes Davis

: 05 Oct 2023

Test Package : MOB 2 (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.

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

Contact: GFL Calgary calgarymaintenance@gflenv.com

Submitted By: GFL Calgary

T: F: (403)369-6163