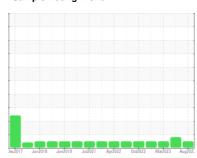


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 201043 Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

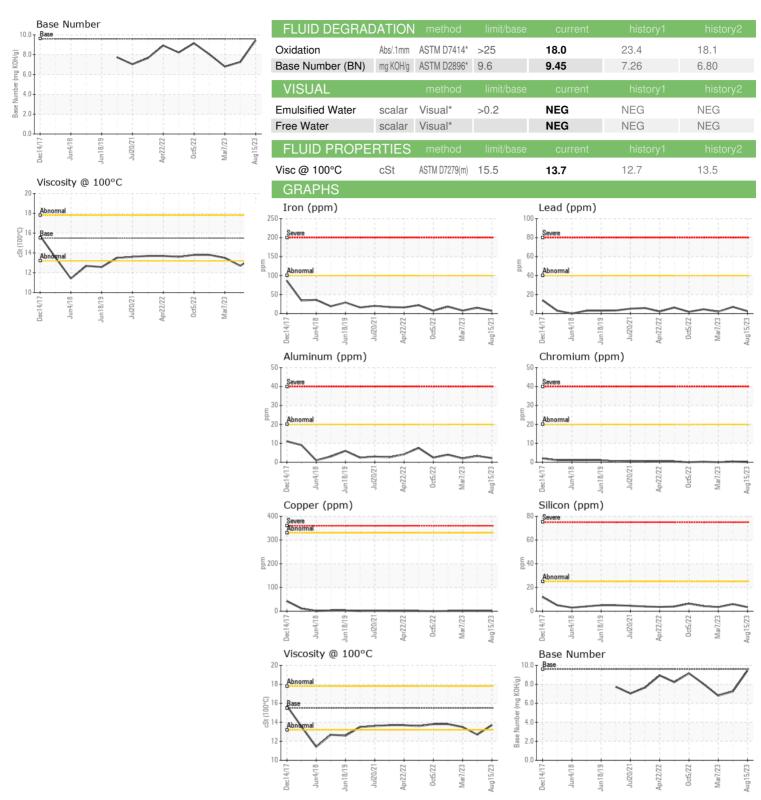
Fluid Condition

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)		Jec2017 Ju	n2018 Jun2019 Jul202	1 Apr2022 Oct2022 Mar20	23 Aug ² 02:	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084330	GFL0077592	GFL0070740
Sample Date		Client Info		15 Aug 2023	27 Jun 2023	07 Mar 2023
Machine Age	kms	Client Info		9546	373251	8806
Oil Age	kms	Client Info		227	0	398
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	MARGINAL	NORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	△ 3.6	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	7	15	8
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	3	2
Lead	ppm	ASTM D5185(m)	>40	2	7	2
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
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)	1	2	2	2
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	57	59	57
Manganese	ppm	ASTM D5185(m)	1	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	959	950	918
Calcium	ppm	ASTM D5185(m)	1070	1028	1045	1136
Phosphorus	ppm	ASTM D5185(m)	1150	1049	1038	1069
Zinc	ppm	ASTM D5185(m)	1270	1167	1184	1171
Sulfur	ppm	ASTM D5185(m)	2060	2522	2397	2578
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	6	4
Sodium	ppm	ASTM D5185(m)		1	2	2
Potassium	ppm	ASTM D5185(m)	>20	2	3	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	8.0	1.3	0.6
Nitration	Abs/cm	ASTM D7624*	>20	8.7	12.1	9.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.6	24.6	23.2



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number Unique Number Test Package : MOB 2

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

: GFL0084330 : 02577346 : 5630406

Received : 22 Aug 2023 : 23 Aug 2023 Diagnosed Diagnostician

: Wes Davis

220 Carmek Blvd Rocky View County, AB

CA T1X 1X1 Contact: GFL Calgary

calgarymaintenance@gflenv.com T:

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.