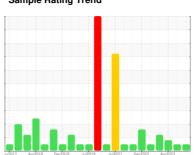


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **8267** Component

Front Diesel Engine

PETRO CANADA DURON XL SYN BLEND 15W40 (22 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

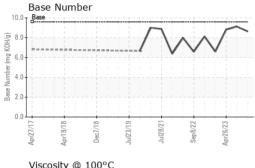
Fluid Condition

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

15W40 (22 LTR)		pr2017 Ap	r2018 Dec2018 Jul2	019 Jul2021 Sep2022 A	pr2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091636	GFL0084266	GFL0077603
Sample Date		Client Info		26 Sep 2023	11 Jul 2023	26 Apr 2023
Machine Age	kms	Client Info		358486	346008	15288
Oil Age	kms	Client Info		12950	0	204
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	MARGINAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	▲ 3.6
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	76	63	21
Chromium	ppm	ASTM D5185(m)	>5	2	2	<1
Nickel	ppm	ASTM D5185(m)	>2	<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)	>30	5	4	3
Lead	ppm	ASTM D5185(m)	>30	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>150	2	2	<1
Tin	ppm	ASTM D5185(m)	>5	<1	<1	<1
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	3	3	2
Barium	ppm	ASTM D5185(m)	1	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	60	73	67	58
Manganese	ppm	ASTM D5185(m)	1	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	1189	1117	930
Calcium	ppm	ASTM D5185(m)	1070	1345	1219	1084
Phosphorus	ppm	ASTM D5185(m)	1150	1197	1180	1056
Zinc	ppm	ASTM D5185(m)	1270	1469	1363	1160
Sulfur	ppm	ASTM D5185(m)	2060	2510	2482	2472
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	8	8	6
Sodium	ppm	ASTM D5185(m)		8	7	5
Potassium	ppm	ASTM D5185(m)	>20	2	1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1.8	1.5	0.5
Nitration	Abs/cm	ASTM D7624*	>20	12.7	12.2	8.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.2	27.1	20.7



OIL ANALYSIS REPORT

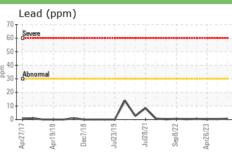


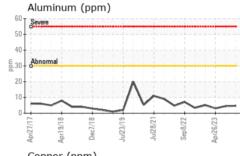
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17 Base				
16 - Base 15 - 14				/
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13 Abno	rmal 💙			V
Abno	rmal 💙			~

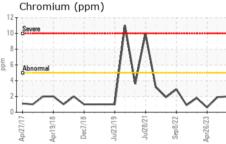
FLUID DEGRAI	AOITAC	method				history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	24.3	24.0	16.7
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	8.64	9.12	8.82
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	16.4	15.6	13.6

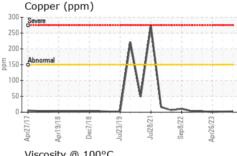
Severe		- A			
Abnormal		-/	1	Λ	
		1	V	11	
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			Jui28/21-	Sep8/22 -	Apr26/23
Apr21/11/ Apr19/18 -	Dec7/18	Jul23/19			

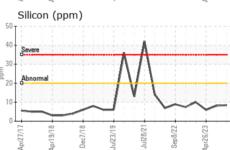
GRAPHS

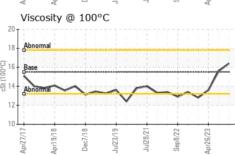


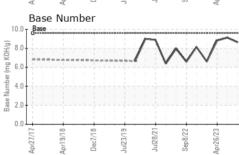














CALA ISO 17025:2017 Accredited Laboratory

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 : GFL0091636

Received : 02586979 : 5656045

Diagnosed : 06 Oct 2023 Diagnostician : Wes Davis

: 05 Oct 2023

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

Contact: GFL Calgary calgarymaintenance@gflenv.com

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.

F: (403)369-6163

T: