

## NORMAL WEAR CONTAMINATION NORMAL **FLUID CONDITION** NORMAL

## Machine Id 501032 Compone **Diesel Engine** PETRO CANADA DURON HP 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0117295	GFL0099528	GFL008426
	Sample Date		Client Info		02 May 2024	15 Dec 2023	05 Jul 202
	Machine Age	kms	Client Info		7176	43629	13503
	Oil Age	kms	Client Info		150	0	0
	Filter Age	kms	Client Info		150	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185(m)	>100	10	20	11
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185(m)	>20	<1	2	<1
	Nickel	ppm	ASTM D5185(m)	>4	<1	2	<1
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)	>3	0	0	<1
	Aluminum	ppm	ASTM D5185(m)	>20	2	6	4
	Lead	ppm	ASTM D5185(m)	>40	0	0	0
	Copper	ppm	ASTM D5185(m)	>330	1	3	2
	Tin	ppm	ASTM D5185(m)	>15	0	<1	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185(m)	>25	3	4	6
	Potassium	ppm	ASTM D5185(m)	>20	3	7	4
	Fuel	%	ASTM D7593*	>5	0.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0.1	0.3	0
	Nitration	Abs/cm	ASTM D7624*	>20	6.4	8.5	5.5
	Sulfation	Abs/.1mm	ASTM D7415*	>30	18.7	19.6	18.9
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185(m)		2	2	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185(m)	0	3	20	296
	Barium	ppm	ASTM D5185(m)	0	0	0	0
	Molybdenum	ppm	ASTM D5185(m)	60	58	62	72
	morybaomann						
	Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
	-	ppm ppm	ASTM D5185(m) ASTM D5185(m)		<1 966	0 909	<1 528
	Manganese			1010			

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

ASTM D5185(m) 1270

ASTM D5185(m) 2060

ASTM D7414\* >25

ASTM D7279(m) 15.6

ppm

ppm

Abs/.1mm Base Number (BN) mg KOH/g ASTM D2896\* 9.8 1160

2530

14.4

9.41

12.1 13.6 13.3 Submitted By: GFL Calgary

1201

2560

16.0

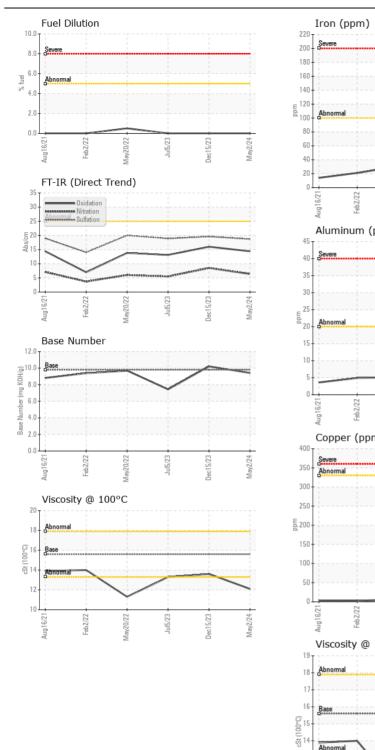
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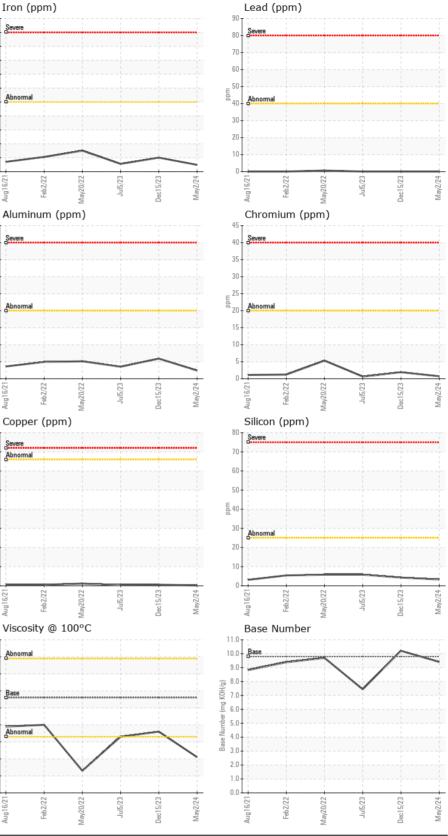
1181

2775

13.1

7.44





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County CALA 回祝 Sample No. : GFL0117295 Received :07 May 2024 220 Carmek Blvd Lab Number : 02633852 Tested :08 May 2024 Rocky View County, AB ISO 17025:2017 Accredited : 08 May 2024 - Wes Davis Unique Number : 5775005 Diagnosed CA T1X 1X1 Laboratory Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel) Contact: GFL Calgary To discuss this sample report, contact Customer Service at 1-800-268-2131. calgarymaintenance@gflenv.com Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: F: (403)369-6163 Validity of results and interpretation are based on the sample and information as supplied.

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