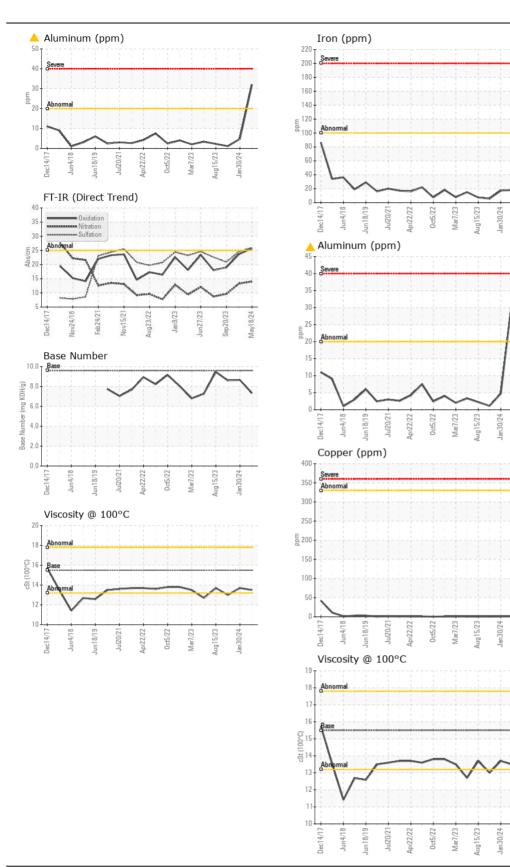


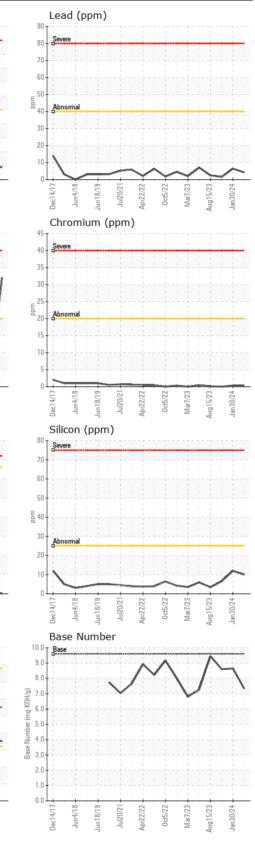
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Machine Id **201043** Component **Diesel Engine** Fluid **PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)**

					$\langle \rangle$		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. We	Sample Number		Client Info		GFL0117345	GFL0099610	GFL009161
ecommend an early resample to monitor this condition.	Sample Date		Client Info		18 May 2024		20 Sep 202
	Machine Age	hrs	Client Info		404287	10036	8985
	Oil Age	hrs	Client Info		0	550	0
	Filter Age	hrs	Client Info		0	550	0
	Oil Changed		Client Info		Changed	Changed	Changeo
	Filter Changed		Client Info		Changed	Changed	Changeo
	Sample Status				ABNORMAL	NORMAL	MARGINA
VEAR	Iron	ppm	ASTM D5185(m)	>100	18	17	6
Aluminum ppm levels are abnormal. Piston wear is indicated.	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	0
	Silver	ppm	ASTM D5185(m)	>3	0	0	<1
	Aluminum	ppm	ASTM D5185(m)	>20	<mark>▲</mark> 32	5	1
	Lead	ppm	ASTM D5185(m)	>40	4	6	2
	Copper	ppm	ASTM D5185(m)	>330	1	<1	<1
	Tin	ppm	ASTM D5185(m)	>15	<1	<1	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	10	12	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	3	4	0
,	Fuel		WC Method	>5	<1.0	<1.0	2 .7
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	1.6	1.5	0.7
	Nitration	Abs/cm	ASTM D7624*	>20	14.0	13.3	9.6
	Sulfation	Abs/.1mm	ASTM D7415*	>30	25.9	24.6	20.9
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185(m)		3	2	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185(m)	1	2	2	2
THE DIN TESUL ITIUICALES LITAL LITETE IS SULLADE AINAULTILY TETHAITUUU ITI THE	DOIOII	ppm	()				
il. The oil is no longer serviceable as a result of the abnormal and/or	Barium	ppm	ASTM D5185(m)		0	0	<1

Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG					
Sodium	ppm	ASTM D5185(m)		3	2	2					
Boron	ppm	ASTM D5185(m)	1	2	2	2					
Barium	ppm	ASTM D5185(m)	1	0	0	<1					
Molybdenum	ppm	ASTM D5185(m)	60	58	57	57					
Manganese	ppm	ASTM D5185(m)	1	<1	0	0					
Magnesium	ppm	ASTM D5185(m)	1010	935	927	923					
Calcium	ppm	ASTM D5185(m)	1070	1052	1117	1093					
Phosphorus	ppm	ASTM D5185(m)	1150	976	998	998					
Zinc	ppm	ASTM D5185(m)	1270	1171	1174	1170					
Sulfur	ppm	ASTM D5185(m)	2060	2314	2627	2539					
Oxidation	Abs/.1mm	ASTM D7414*	>25	25.7	23.7	19.0					
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	7.33	8.65	8.60					
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	13.5	13.7	13.0					
Submitted By: GFL Calgary											







Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County CALA Sample No. Received : GFL0117345 : 28 May 2024 Lab Number : 29 May 2024 : 02637854 Tested ISO 17025:2017 Accredited : 29 May 2024 - Kevin Marson Unique Number : 5787016 Diagnosed Laboratory Test Package : MOB 2 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 T: F: (403)369-6163

Report Id: GFL550 [WCAMIS] 02637854 (Generated: 05/29/2024 10:01:10) Rev: 1

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