WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

CGER (ATELIER DE SAINT-JEROME)

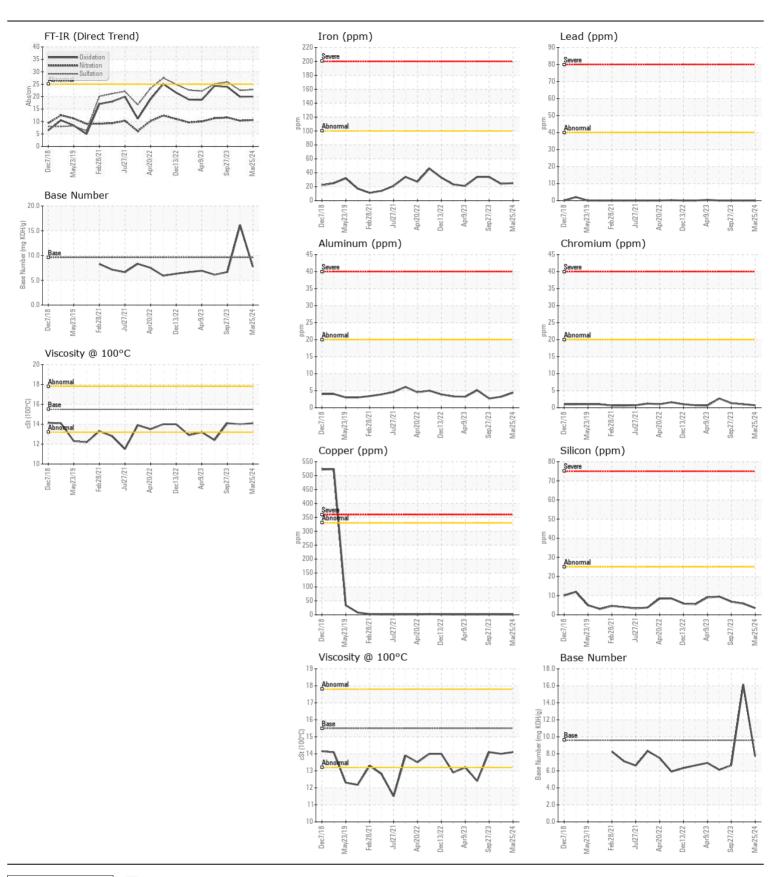
801115
Component
Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number	00111	Client Info	Little / toll	GFL0112457	GFL0099527	GFL009163
	Sample Date		Client Info		25 Mar 2024		27 Sep 202
	Machine Age	hrs	Client Info		14414	183000	13129
	Oil Age	hrs	Client Info		600	0	0
	Filter Age	hrs	Client Info		600	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	MARGINAL	MARGINA
WEAR	Iron	ppm	ASTM D5185(m)	>100	25	24	34
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		<1	1	1
	Nickel	ppm	ASTM D5185(m)		0	<1	<1
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)	>3	0	0	<1
	Aluminum	ppm	ASTM D5185(m)	>20	4	3	3
	Lead	ppm	ASTM D5185(m)	>40	0	0	0
	Copper	ppm	ASTM D5185(m)	>330	1	1	2
	Tin	ppm	ASTM D5185(m)	>15	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	4	6	7
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	1	1	<1
	Fuel		WC Method	>5	<1.0	<u>^</u> 2	<u>^</u> 3
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0.8	0.8	1.4
	Nitration	Abs/cm	ASTM D7624*	>20	10.6	10.3	11.6
	Sulfation	Abs/.1mm	ASTM D7415*	>30	22.8	22.5	25.9
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		8	8	8
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185(m)	1	3	2	2
oil. The condition of the oil is suitable for further service.	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	927	919	889
	Calcium	ppm	ASTM D5185(m)	1070	1057	1029	996
	Phosphorus	ppm	ASTM D5185(m)	1150	969	956	905
	Zinc	ppm	ASTM D5185(m)	1270	1190	1157	1126
	Sulfur	ppm	ASTM D5185(m)		2285	2430	2272
	Oxidation	Abs/.1mm			20.0	19.9	23.9
	Base Number (BN)	-			7.71	16.14	6.65
	Visc @ 100°C	cSt	ASTM D7279(m)	15.5	14.1	14.0	14.1

Report Id: GFL550 [WCAMIS] 02628778 (Generated: 04/17/2024 08:29:22) Rev: 1

Submitted By: GFL Calgary





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

: GFL0112457 : 02628778 Unique Number : 5761910 Test Package : MOB 2

Received : 15 Apr 2024 **Tested** Diagnosed

: 17 Apr 2024

: 17 Apr 2024 - Wes Davis

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