

Machine Id **7768** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (40 LTR)**

RECOMMENDATION

Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR	

All component wear rates are normal.

CONTAMINATION

Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative. There is no indication of any contamination in the oil.

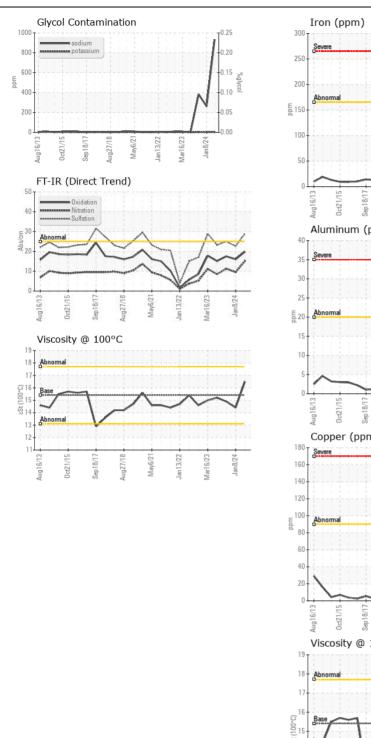
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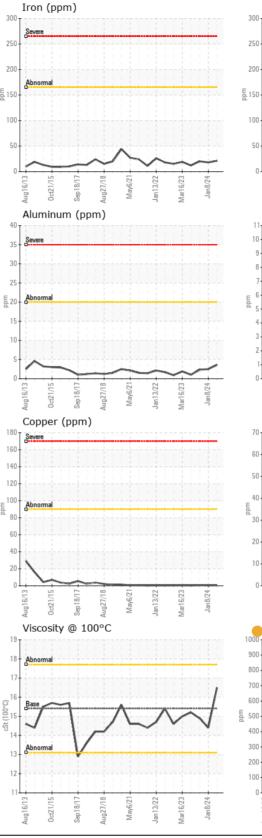
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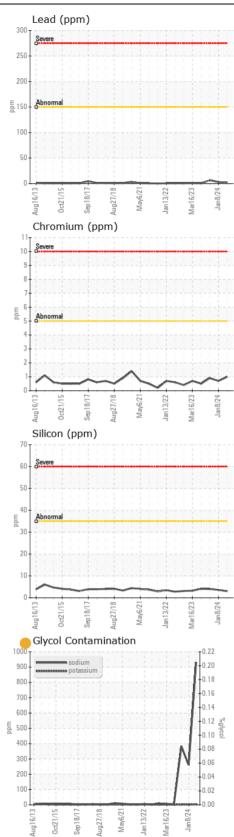
The condition of the oil is acceptable for the time in service (see recommendation).

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	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0125802	GFL0107870	GFL0099455
	Sample Date		Client Info		06 Jun 2024	08 Jan 2024	12 Oct 2023
	Machine Age	kms	Client Info		187564	181116	177557
	Oil Age	kms	Client Info		0	0	0
	Filter Age	kms	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	ATTENTION	ATTENTION
	Iron	ppm	ASTM D5185(m)	>165	21	18	20
	Chromium	ppm	ASTM D5185(m)	>5	1	<1	<1
	Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
	Titanium	ppm	ASTM D5185(m)	>2	0	0	0
	Silver	ppm	ASTM D5185(m)	>2	0	0	<1
	Aluminum	ppm	ASTM D5185(m)	>20	4	2	2
	Lead	ppm	ASTM D5185(m)	>150	2	3	6
	Copper	ppm	ASTM D5185(m)	>90	<1	<1	<1
	Tin	ppm	ASTM D5185(m)	>5	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	Silicon	ppm	ASTM D5185(m)	>35	3	4	4
	Potassium	ppm	ASTM D5185(m)	>20	4	2	3
	Fuel	pp	WC Method	>3.0	<1.0	- <1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	ASTM D7922*		0.0	0.0	0.0
	Soot %	%	ASTM D7844*	>7.5	3.7	1.4	2.2
	Nitration	Abs/cm	ASTM D7624*	>20	15.2	9.5	11.3
	Sulfation	Abs/.1mm	ASTM D7415*	>30	29.0	22.6	25.0
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185(m)		932	260	383
	Boron	ppm	ASTM D5185(m)	0	2	2	2
	Barium	ppm	ASTM D5185(m)	0	0	0	<1
	Molybdenum	ppm	ASTM D5185(m)	60	61	59	61
	Manganese	ppm	ASTM D5185(m)	0	<1	0	0
	Magnesium	ppm	ASTM D5185(m)	1010	922	956	978
	Calcium	ppm	ASTM D5185(m)	1070	1029	1082	1080
	Phosphorus	ppm	ASTM D5185(m)	1150	893	1025	1014
	Zinc	ppm	ASTM D5185(m)	1270	1146	1179	1219
	Sulfur	ppm	ASTM D5185(m)	2060	2495	2656	2520
	Oxidation	Abs/.1mm	ASTM D7414*	>25	19.8	16.0	17.5
	Visc @ 100°C	cSt	ASTM D7279(m)	15.4	16.5	14.4	14.9

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Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 225 - COT(D2) CALA Sample No. Received 20 Brydon Drive : GFL0125802 : 10 Jun 2024 Lab Number Tested : 02640653 Etobicoke, ON ISO 17025:2017 : 11 Jun 2024 Accredited : 11 Jun 2024 - Kevin Marson CA M9W 5R6 Unique Number : 5789815 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: Glycol) Contact: Rick Philip To discuss this sample report, contact Customer Service at 1-800-268-2131. rphilip@gflenv.com T: (416)745-8080 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.

Report Id: GFL225 [WCAMIS] 02640653 (Generated: 06/11/2024 16:47:12) Rev: 1

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