

Machine Id **720070** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (--- GAL)**

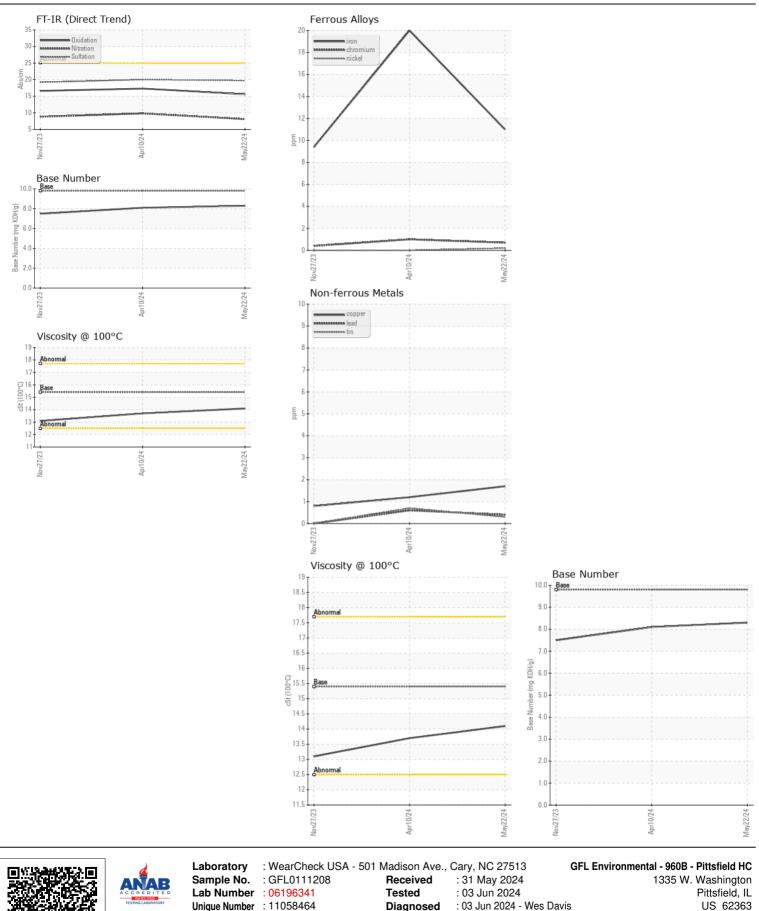
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0111208	GFL0111236	GFL0087955
	Sample Date		Client Info		22 May 2024	10 Apr 2024	27 Nov 2023
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		600	600	600
	Filter Age	hrs	Client Info		600	600	600
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>110	11	20	9
	Chromium	ppm	ASTM D5185m	>4	<1	1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	2	3	2
	Lead	ppm	ASTM D5185m	>45	<1	<1	0
	Copper	ppm	ASTM D5185m	>85	2	1	<1
	Tin	ppm	ASTM D5185m	>4	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	\ 30	4	5	3
	Potassium	ppm	ASTM D5185m		2	<1	0
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.6	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	9.8	8.8
	Sulfation	Abs/.1mm	*ASTM D7415		19.7	20.0	19.2
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium		ASTM D5185m		4	5	4
	Boron	ppm	ASTM D5185m	0	4 <1	0	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m			0	0
	Molybdenum	ppm ppm	ASTM D5185m		<1 61	58	55
	Manganese		ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		953	960	944
	Calcium	ppm	ASTM D5185m		1080	1095	1060
	Phosphorus	ppm ppm	ASTM D5185m		1131	1095	1025
	Zinc		ASTM D5185m		1252	1204	1248
	Sulfur	ppm	ASTM D5185m		3341	3448	2983
	Oxidation	ppm Abs/.1mm	*ASTM D5165III		15.6	17.3	2983
	Base Number (BN)				8.3	8.1	7.5
			ASTIVI D2090	5.0 1E 4	0.0	0.1	10.1

14.1

13.7

13.1

Visc @ 100°C cSt ASTM D445 15.4



Diagnosed Test Package : FLEET Contact: David Bradshaw Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. david.bradshaw@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: See also GFL960B, 960C, 960D - David Bradshaw Page 2 of 2

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