

## Machine Id **727178** Component **Diesel Engine** Filuid **PETRO CANADA DURON SHP 15W40 (--- GAL)**

	<b>/</b>						
RECOMMENDATION	Test	UOM	Method	Limit/Abn		History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0084806	GFL0116517	GFL0084853
	Sample Date		Client Info		27 Apr 2024	16 Apr 2024	18 Sep 2023
	Machine Age	hrs	Client Info		16315	16282	15260
	Oil Age	hrs	Client Info		16282	20421	14833
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	SEVERE	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	9	44	48
	Chromium	ppm	ASTM D5185m	>20	<1	1	1
	Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	6	8
	Lead	ppm	ASTM D5185m	>40	<1	<1	<1
	Copper	ppm	ASTM D5185m	>330	1	3	2
	Tin	ppm	ASTM D5185m	>15	1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>25	5	9	12
	Potassium	ppm	ASTM D5185m	>20	4	14	14
	Fuel		WC Method		<1.0	▲ 10.8	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.4	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	6.2	11.5	13.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	23.3	25.8
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	11	10
	Boron	ppm	ASTM D5185m	0	0	7	7
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	0	0
	Molybdenum	ppm	ASTM D5185m	60	57	58	52
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	930	835	942
	Calcium	ppm	ASTM D5185m		1040	1005	1122
	Phosphorus	ppm	ASTM D5185m		1066	888	1024
	Zinc	ppm	ASTM D5185m	1270	1197	1105	1255
	Sulfur	ppm	ASTM D5185m		3586	2753	2870
	Oxidation	Abs/.1mm	*ASTM D7414		15.2	24.8	25.0
	Base Number (BN)				9.0	5.9	5.9
		- 01		45.4	40.0	A 44 4	4.4.7

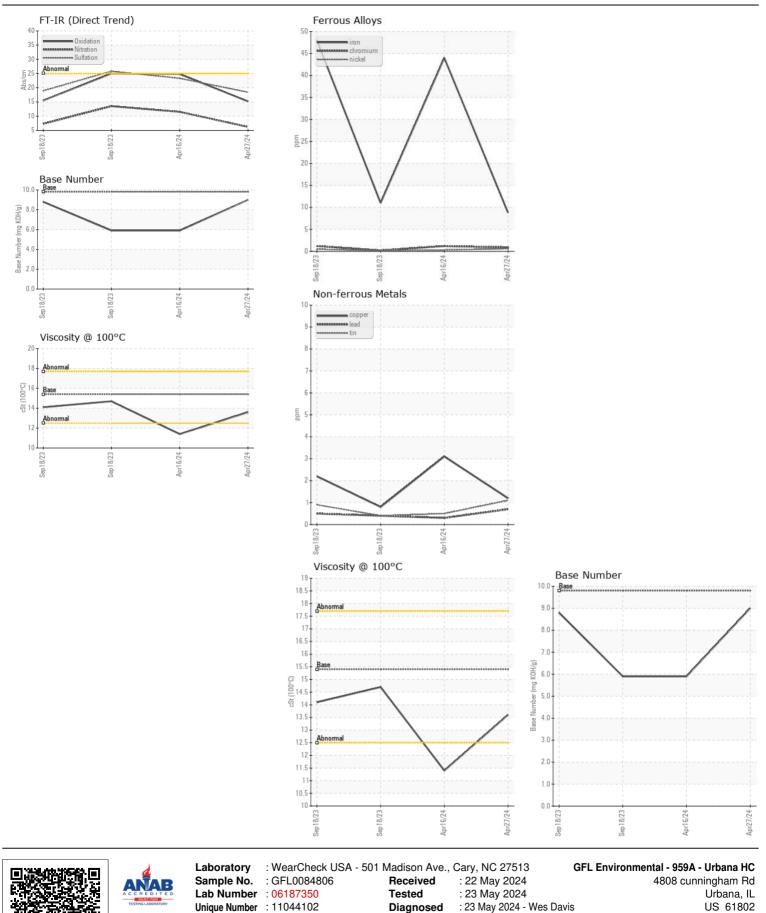
Visc @ 100°C cSt

ASTM D445 15.4

11.4

14.7

13.6



Certificate L2367 Test Package : FLEET To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - 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)

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Submitted By: Also GFL959E - Kristine Tryon Page 2 of 2

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