

NORMAL WEAR NORMAL CONTAMINATION FLUID CONDITION NORMAL

(41001HA) 426025-4670 **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- LTR)

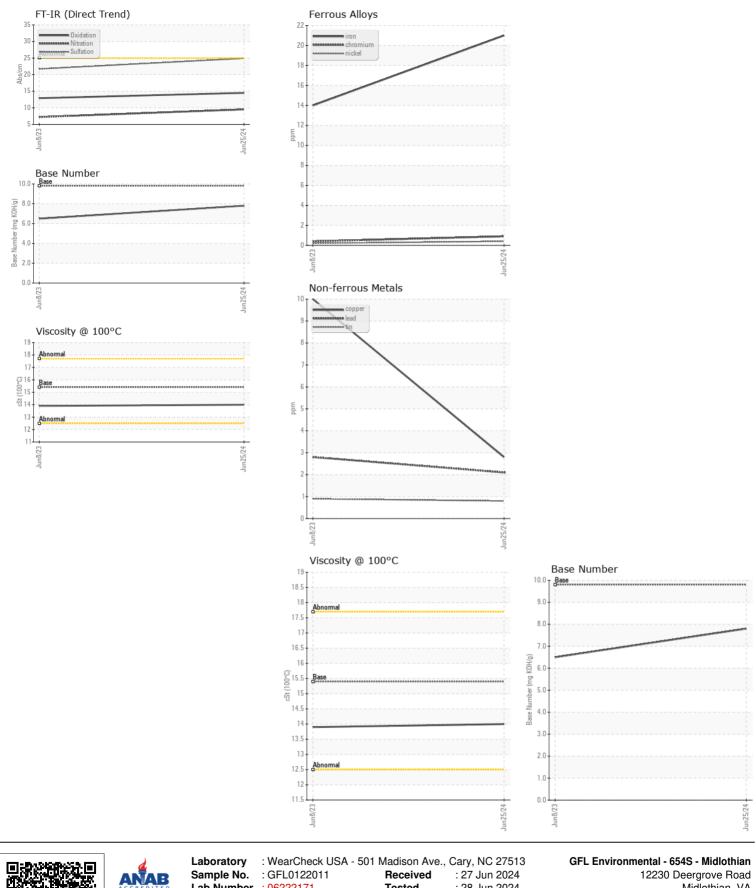
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0122011	GFL0067855	
	Sample Date		Client Info		25 Jun 2024	08 Jun 2023	
	Machine Age	hrs	Client Info		34069	33118	
	Oil Age	hrs	Client Info		34069	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	<120	21	14	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		4	0	
	Lead		ASTM D5185m		2	3	
	Copper	ppm	ASTM D5185m		3	10	
	Tin	ppm	ASTM D5185m		-3 <1	<1	
	Vanadium	ppm	ASTM D5185m	>15	<1	0	
	White Metal	ppm		NONE		NONE	
		scalar	*Visual		NONE NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	2	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	5	1	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>4	3.4	2.6	
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	7.2	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.9	21.7	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	0	
	Boron	ppm	ASTM D5185m	0	5	27	
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	2	
	Molybdenum	ppm	ASTM D5185m		57	44	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		931	583	
	Calcium	ppm	ASTM D5185m		1125	780	
	Phosphorus	ppm	ASTM D5185m		1042	930	
	Zinc	ppm	ASTM D5185m		1272	842	
	Sulfur	ppm	ASTM D5185m		3269	4633	
	Oxidation	Abs/.1mm	*ASTM D310311		14.5	12.9	
	Base Number (BN)				7.8	6.5	
		ing noning	10111102000	0.0	1.0	0.0	

Visc @ 100°C cSt

ASTM D445 15.4

13.9

14.0



Lab Number : 06222171 Tested Midlothian, VA : 28 Jun 2024 Unique Number : 11100368 Diagnosed : 28 Jun 2024 - Wes Davis US 23112 Test Package : FLEET Contact: Corbin Umphlet Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. cumphlet@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: TECHNICIAN ACCOUNT Page 2 of 2

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