

**Charlestown** 693 ponent

## **Diesel Engine**

## PETRO CANADA DURON SHP 10W30 (11 GAL)

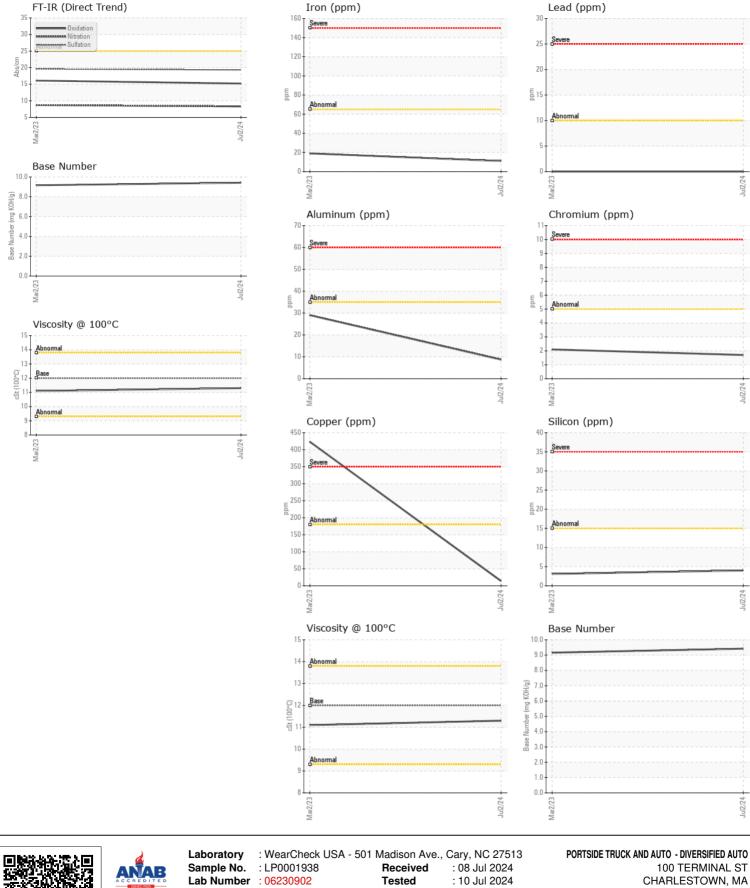
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LP0001938	PCA0083283	
	Sample Date		Client Info		02 Jul 2024	02 Mar 2023	
	Machine Age	hrs	Client Info		0	0	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	ABNORMAL	
				ог		10	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		11	19	
	Chromium	ppm	ASTM D5185m		2	2	
	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		0	<1	
	Aluminum	ppm	ASTM D5185m		9	29	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		14	▲ 423	
	Tin	ppm	ASTM D5185m	>8	<1	3	
	Vanadium White Metal	ppm	ASTM D5185m *Visual	NONE	0	0 NONE	
		scalar			NONE	-	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>15	4	3	
	Potassium	ppm	ASTM D5185m	>20	16	61	
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.5	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	8.7	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	19.6	
	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	0	<1	0	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		5	5	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		58	57	
	Manganese	ppm	ASTM D5185m		0	1	
	Magnesium	ppm	ASTM D5185m		939	814	
	Calcium	ppm	ASTM D5185m		1080	1151	
	Phosphorus	ppm	ASTM D5185m		964	910	
	Zinc	ppm	ASTM D5185m		1228	1091	
	Sulfur	ppm	ASTM D5185m		2621	2206	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	16.1	
	Base Number (BN)	mg KOH/g	ASTM D2896		9.42	9.16	

11.1

11.3

ASTM D445 12.00

Visc @ 100°C cSt



Unique Number : 11114395 : 10 Jul 2024 - Wes Davis US 02129 Diagnosed Test Package : MOB 2 Contact: BRYAN WINTER Certificate L2367 BWINTERS@DIVERSIFIEDAUTO.COM 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. T: 1(857)998-2229 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: BRYAN WINTER Page 2 of 2

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