

Machine Id **541** Component **Diesel Engine** Fluid **PETRO CANADA DURON HP 15W40 (--- GAL)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the component make and model with your next sample.	Sample Number		Client Info		WC0727304	WC0727393	,
	Sample Date		Client Info		10 Apr 2024	14 Feb 2023	
	Machine Age	mls	Client Info		133832	5000	
	Oil Age	mls	Client Info		0	0	
model with your next bumple.	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		Changed	N/A	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				NORMAL	ABNORMAL	
						~=	
WEAR	Iron	ppm	ASTM D5185m		26	35	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		2	2	
	Nickel	ppm	ASTM D5185m	>4	<1	<1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		16	14	
	Lead	ppm	ASTM D5185m		2	13	
	Copper	ppm	ASTM D5185m		2	3	
	Tin	ppm	ASTM D5185m	>15	0	1	
	Vanadium White Metal	ppm	ASTM D5185m	NONE	<1 NONE	0 NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE NONE	NONE	
	reliow wietai	scalar	*Visual	NONE		NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	5	
	Potassium	ppm	ASTM D5185m	>20	0	4	
Light fuel dilution occurring. No other contaminants were detected in the oil.	Fuel	%	ASTM D3524	>5	1.6	7 .8	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.4	0.6	
	Nitration	Abs/cm	*ASTM D7624	>20	8.8	9.3	
	Sulfation	Abs/.1mm	*ASTM D7415		18.7	21.8	
	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		2	<1	
	Boron	ppm	ASTM D5185m		9	149	
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	ASTM D5185m		59	53	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		874	319	
	Calcium	ppm	ASTM D5185m		1044	1341	
	Phosphorus	ppm	ASTM D5185m		957	854	
	Zinc	ppm	ASTM D5185m		1106	982	
	0.17		LOTH DELOF				

Sulfur

Oxidation

Visc @ 100°C cSt

3161

15.6

8.6

13.3

2485

19.4

7.1

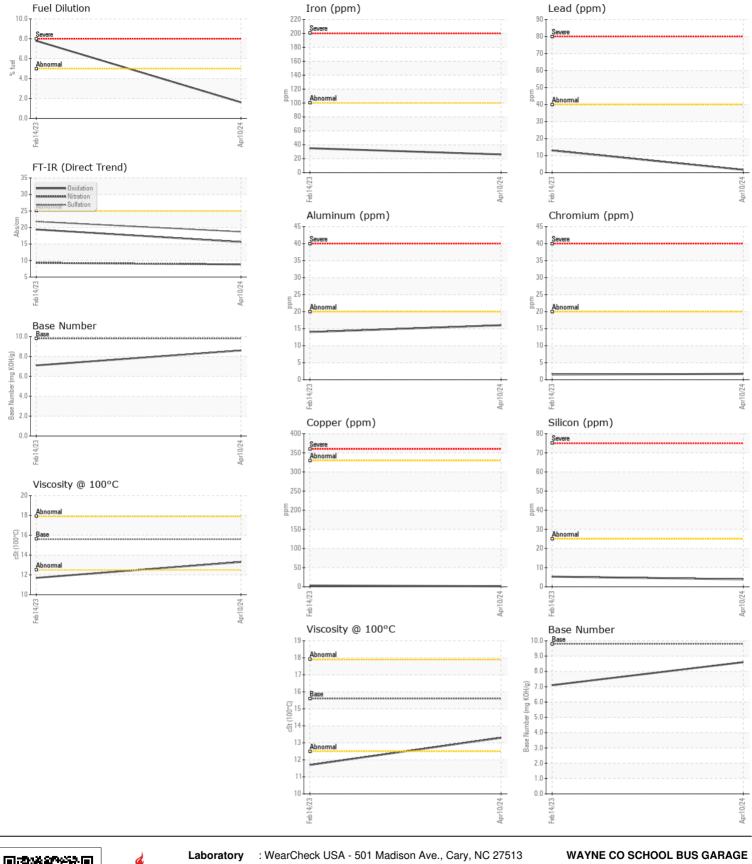
11.7

ppm ASTM D5185m

Base Number (BN) mg KOH/g ASTM D2896 9.8

Abs/.1mm *ASTM D7414 >25

ASTM D445 15.6



Sample No. Received 1603 SALEM CHURCH RD : WC0727304 : 12 Apr 2024 Lab Number : 06147988 Tested GOLDSBORO, NC : 17 Apr 2024 Unique Number : 10978066 : 17 Apr 2024 - Wes Davis US 27530 Diagnosed Test Package : MOB 1 (Additional Tests: PercentFuel, TBN) Contact: BRANDON BRIGGS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. brandonbriggs@wcps.org * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: BRANDON BRIGGS - WAYGOL Page 2 of 2