

## WCLSNC Machine Id QC230801DE

## Diesel Engine

## 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		WC0929377	WC0929376	WC092937
	Sample Date		Client Info		23 Apr 2024	22 Apr 2024	19 Apr 202
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>11	9	8	10
	Chromium	ppm	ASTM D5185m	>3	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>5	2	1	2
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		4	6	5
	Tin	ppm	ASTM D5185m	>2	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>14	4	4	4
	Potassium	ppm	ASTM D5185m	>20	2	<1	<1
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		2.3	2.6	2.5
	Water	%	ASTM D6304	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>0.3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>10.8	10.4	10.3	10.4
	Sulfation	Abs/.1mm	*ASTM D7415	>20.8	20.3	20.1	20.2
	Silt	scalar	*Visual	NONE	NONE	NONE	NON
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>13	7	8	8
	Boron	ppm	ASTM D5185m	0	5	7	10
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	0	0	1	0
	Molybdenum	ppm	ASTM D5185m	60	52	50	49
	Manganese	ppm	ASTM D5185m	0	<1	1	<1
	Magnesium	ppm	ASTM D5185m	1010	606	550	521
	Calcium	ppm	ASTM D5185m		1732	1519	1512
	Phosphorus	ppm	ASTM D5185m		806	707	678
	Zinc	ppm	ASTM D5185m		1069	923	815
	Sulfur	ppm	ASTM D5185m		3117	2726	3007
	Oxidation	Abs/.1mm	*ASTM D7414		17.3	17.1	17.5
	Acid Number (AN)	0 0			0.927	0.81	0.78
	Base Number (BN)	0 0			7.19	6.86	6.05
	Visc @ 40°C	cSt	ASTM D445		97.52	98.1	98.1
		~C+	ACTM D445	15/	12.2	12.2	12.2

Visc @ 100°C cSt

Viscosity Index (VI) Scale ASTM D2270 142

ASTM D445 15.4

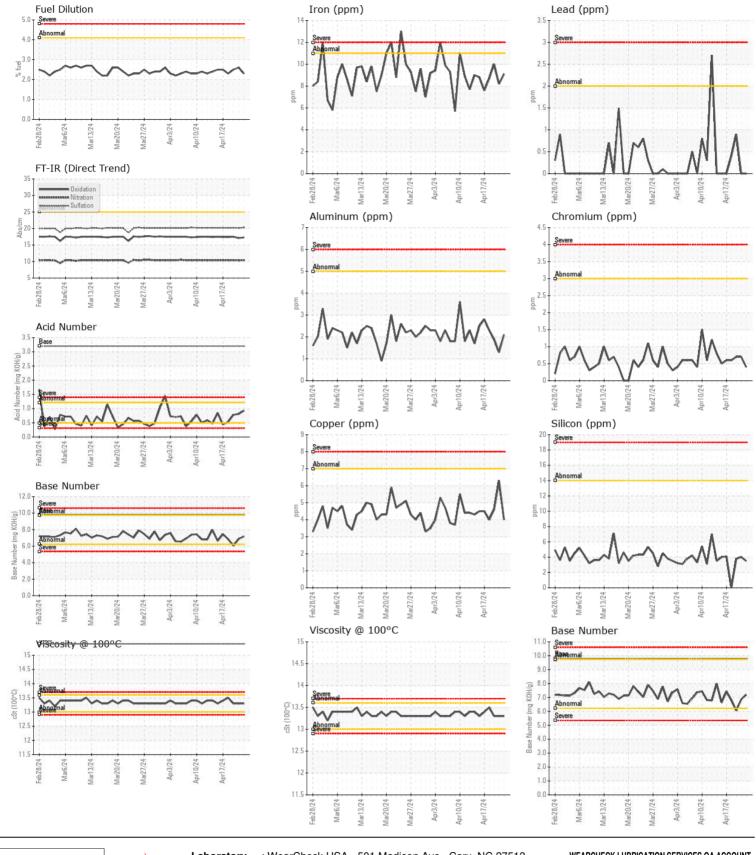
13.3

135

134 134

13.3

13.3



WEARCHECK LUBRICATION SERVICES QA ACCOUNT Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0929377 501 Madison Ave Received : 23 Apr 2024 : 06157828 Lab Number Tested : 29 Apr 2024 Cary, NC Unique Number : 10993251 US 27513 Diagnosed : 29 Apr 2024 - Jonathan Hester Test Package : MOB 2 (Additional Tests: FuelDilution, Glycol, KF, KV40, PercentFuel, VI) Contact: WCLS CARY NC Certificate L2367 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: (919)379-4102 F: (919)379-4050 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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