

## WCLSNC Machine Id QC230801DE

## Component Diesel Engine

## PETRO CANADA DURON SHP 15W40 (--- GAL)

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		WC0906329	WC0906328	WC090632
	Sample Date		Client Info		13 Feb 2024	12 Feb 2024	09 Feb 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	10	8	1
	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	>2	<1	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>5	1	1	2
	Lead	ppm	ASTM D5185m	>2	0	0	1
	Copper	ppm	ASTM D5185m	>7	5	4	4
	Tin	ppm	ASTM D5185m	>2	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>14	3	3	1
CONTAMINATION	Potassium	ppm	ASTM D5185m		4	1	1
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		2.6	2.6	3.0
	Water	%	ASTM D6304		NEG	NEG	NEG
	Glycol	%	*ASTM D2982		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>0.3	0.1	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624	>10.8	10.4	10.3	7.1
	Sulfation	Abs/.1mm	*ASTM D7415	>20.8	20.1	20.1	17.9
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	<13	6	7	8
FLUID CONDITION	Boron	ppm	ASTM D5185m		6	11	8
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	0
	Molybdenum		ASTM D5185m		54	51	48
	Manganese	ppm	ASTM D5185m		0	0	1
	Magnesium	ppm	ASTM D5185m		532	564	507
	Calcium	ppm	ASTM D5185m		1414	1588	1375
	Phosphorus	ppm	ASTM D5185m		644	706	597
	Zinc	ppm	ASTM D5185m		922	976	854
	Sulfur	ppm	ASTM D5185m		2243	2419	2108
	Oxidation	Abs/.1mm	*ASTM D7414		17.3	17.3	14.3
	Acid Number (AN)				0.507	0.38	1.25
	Base Number (BN)	0 0			7.49	7.75	6.86
	View @ 4000	- C+		110.0	00.0	00.0	0.00

Visc @ 40°C cSt ASTM D445 113.9

Viscosity Index (VI) Scale ASTM D2270 142

ASTM D445 15.4

Visc @ 100°C cSt

98.0 98.5

136 135

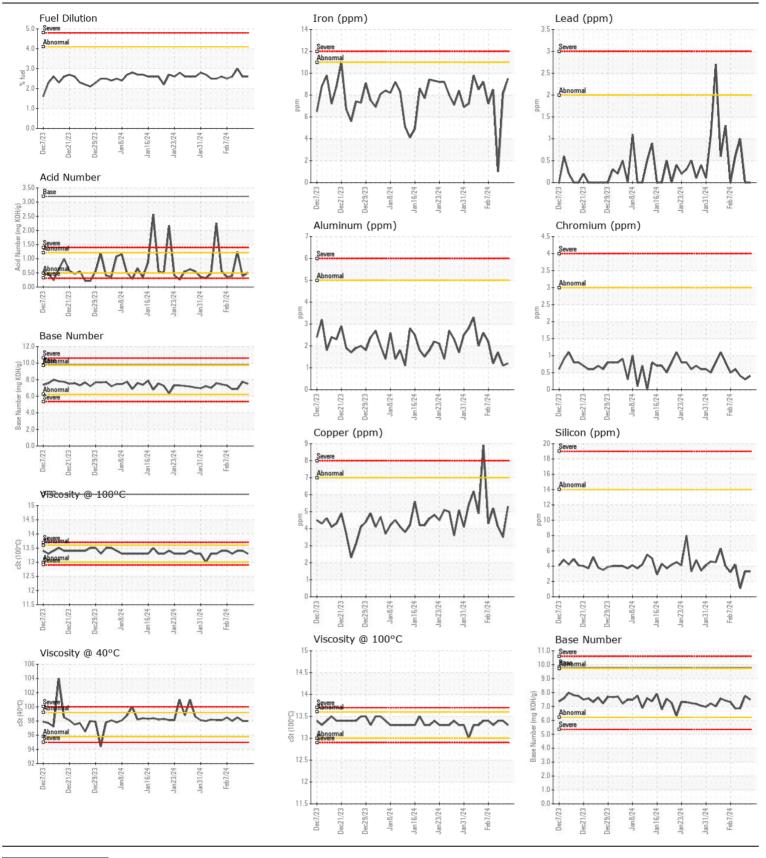
13.4

13.4

98.0

13.3

134



WEARCHECK LUBRICATION SERVICES QA ACCOUNT Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0906329 : 13 Feb 2024 501 Madison Ave Sample No. Received : 06087573 : 19 Feb 2024 Lab Number Tested Cary, NC Unique Number : 10875018 : 19 Feb 2024 - Jonathan Hester US 27513 Diagnosed 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)