

## WCLSNC Machine Id QC230801DE

## Diesel Engine

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

FLING CANADA DUNON SHF 15040 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Theodeminicity of the second	Sample Number	0.0101	Client Info		WC0929379		WC0929377
Resample at the next service interval to monitor.	Sample Date		Client Info		25 Apr 2024	24 Apr 2024	23 Apr 2024
	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	0 N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>11	11	9	9
	Chromium	ppm	ASTM D5185m	>3	1	1	<1
	Nickel	ppm	ASTM D5185m	>2	1	<1	0
	Titanium	ppm	ASTM D5185m	>2	<1	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>5	3	4	2
	Lead	ppm	ASTM D5185m	>2	<1	<1	0
	Copper	ppm	ASTM D5185m	>7	5	5	4
	Tin	ppm	ASTM D5185m	>2	<1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	5	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	2	2
	Fuel	%	ASTM D3524	>4.1	2.3	2.4	2.3
	Water	%	ASTM D6304	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>10.8	10.3	10.3	10.4
	Sulfation	Abs/.1mm	*ASTM D7415		19.9	20.2	20.3
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION 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.	Sodium	ppm	ASTM D5185m	>13	9	8	7
	Boron	ppm	ASTM D5185m		7	6	5
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum		ASTM D5185m		48	50	52
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		534	530	▲ 606
	Calcium	ppm	ASTM D5185m		1458	1473	▲ 1732
	Phosphorus	ppm	ASTM D5185m		767	710	▲ 806
	Zinc	ppm	ASTM D5185m		961	937	▲ 1069
	Sulfur	ppm	ASTM D5185m		3236	2501	3117
	Oxidation	Abs/.1mm	*ASTM D7414		17.2	17.2	17.3
	Acid Number (AN)	mg KOH/g			0.80	0.73	0.927
	Base Number (BN)	mg KOH/g	ASTM D2896		7.25	6.44	7.19
	Visc @ 40°C	cSt	ASTM D2000		99.0	98.7	97.52
		001			33.0	10.7	10.02

Visc @ 100°C cSt

Viscosity Index (VI) Scale ASTM D2270 142

ASTM D445 15.4

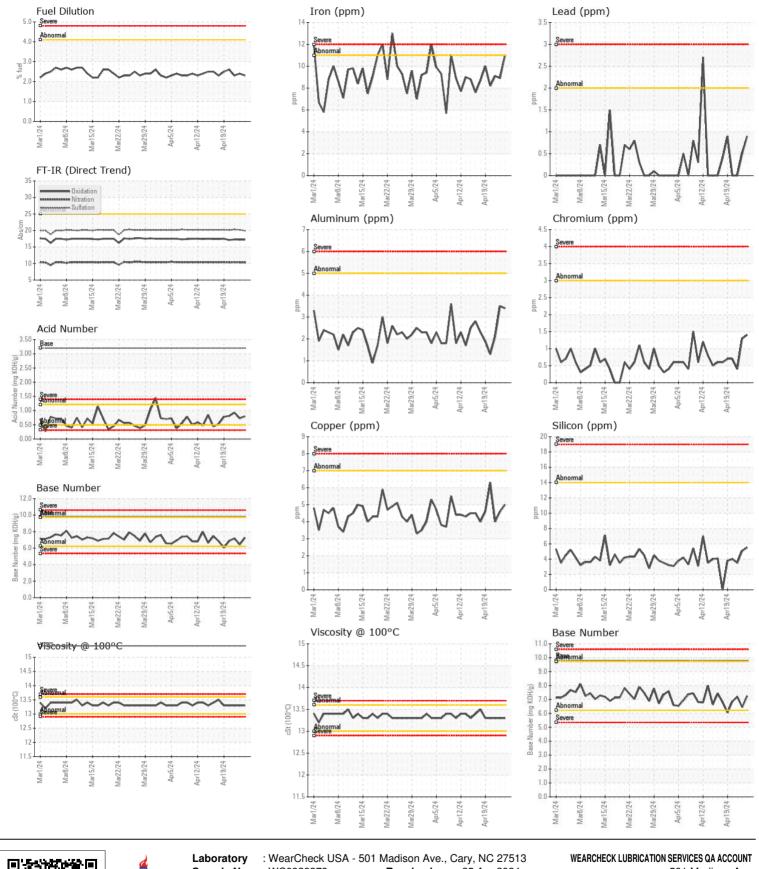
13.3

133

133 135

13.3

13.3



Sample No. : WC0929379 501 Madison Ave Received : 25 Apr 2024 : 06160569 Lab Number Tested : 29 Apr 2024 Cary, NC Unique Number : 10995992 : 29 Apr 2024 - Sean Felton 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)

Submitted By: ?