

WCLSNC Machine Id QC230801DE

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
HEOOMMENDATION	Sample Number		Client Info		WC0939713	WC0939712	WC0939708
Resample at the next service interval to monitor.	Sample Date		Client Info		29 May 2024	28 May 2024	24 May 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	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL		NORMAL
WEAR	Iron		ASTM D5185m	< <u>11</u>	9	9	14
WEAN	Chromium	ppm ppm	ASTM D5185m		1	<1	2
All component wear rates are normal.	Nickel		ASTM D5185m		۰ <1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		1	<1	1
	Aluminum	ppm	ASTM D5185m		3	2	2
	Lead	ppm	ASTM D5185m		-3 <1	<1	<1
	Copper	ppm	ASTM D5185m		5	4	7
	Tin	ppm ppm	ASTM D5185m			0	1
	Vanadium	ppm	ASTM D5185m	~_	<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
<u></u>		304141	VISUAI	NONL		NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>14	6	4	6
	Potassium	ppm	ASTM D5185m	>20	3	2	4
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		2.6	2.6	2.6
	Water	%	ASTM D6304	>0.2	NEG	NEG	NEG
	ppm Water	ppm	ASTM D6304	>2000			
	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	10.4	10.3
	Sulfation	Abs/.1mm	*ASTM D7415	>20.8	19.8	19.8	19.8
	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	Sodium	ppm	ASTM D5185m	>13	8	7	8
	Boron	ppm	ASTM D5185m		6	6	7
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
	Molybdenum	ppm	ASTM D5185m		48	52	51
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		498	555	527
	Calcium	ppm	ASTM D5185m		1350	1620	1440
	Phosphorus	ppm	ASTM D5185m		612	730	656
	Zinc	ppm	ASTM D5185m		818	982	909
	Sulfur	ppm	ASTM D5185m		2759	2811	2368
	Oxidation	Abs/.1mm	*ASTM D7414		17.0	17.1	17.1
	Acid Number (AN)				0.90	0.73	0.90
				0.0		0.45	

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

Viscosity Index (VI) Scale ASTM D2270 142

Visc @ 100°C cSt

Visc @ 40°C cSt ASTM D445 113.9

ASTM D445 15.4

133

98.9 97.5

7.27

13.2

7.14

97.5

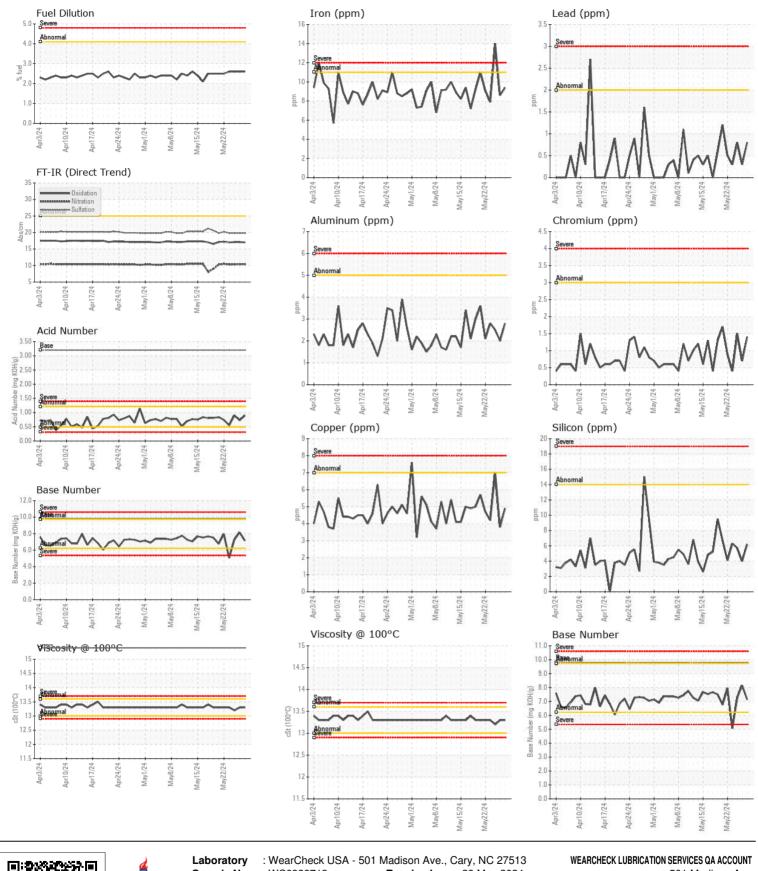
13.3

135

8.15

13.3

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Sample No. : WC0939713 Received : 29 May 2024 501 Madison Ave Lab Number : 06194227 Tested : 03 Jun 2024 Cary, NC Unique Number : 11056350 : 03 Jun 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)

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Submitted By: ?