

WCLSNC Machine Id QC230801DE

Diesel Engine

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

PLINO CANADA DONON SHF 15W40 (GAL)	!						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0929370	WC0929369	WC0929366
	Sample Date		Client Info		16 Apr 2024	15 Apr 2024	12 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	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>11	9	9	8
	Chromium	ppm	ASTM D5185m		<1	<1	1
	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	2	2
	Lead	ppm	ASTM D5185m		0	0	3
	Copper	ppm	ASTM D5185m		4	4	4
	Tin	ppm	ASTM D5185m		0	0	1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Silicon		ASTM D5185m	. 1./	4	4	7
CONTAMINATION		ppm	ASTM D5185m		3	<1	4
There is no indication of any contamination in the oil.	Potassium Fuel	ppm %	ASTM D5185III ASTM D3524		2.5	2.4	2.3
	Water	%	ASTM D5524 ASTM D6304		NEG	NEG	NEG
	Glycol	%	*ASTM D0304	>0.2	NEG	0.0	NEG
	Soot %	%	*ASTM D2962	>0.2	0.1	0.0	0.1
	Nitration	Abs/cm	*ASTM D7624		10.4	10.4	10.4
	Sulfation	Abs/.1mm	*ASTM D7024		20.2	20.2	20.2
	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
				20.L			
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>13	7	8	7
	Boron	ppm	ASTM D5185m	0	6	5	5
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	0
	Molybdenum	ppm	ASTM D5185m	60	53	52	50
	Manganese	ppm	ASTM D5185m	0	0	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	525	564	562
	Calcium	ppm	ASTM D5185m	1070	1517	1639	1635
	Phosphorus	ppm	ASTM D5185m	1150	728	702	772
	Zinc	ppm	ASTM D5185m	1270	947	917	1004
	Sulfur	ppm	ASTM D5185m	2060	2344	2986	2855
	Oxidation	Abs/.1mm	*ASTM D7414	>17.9	17.5	17.4	17.5
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.85	0.47	0.59
	Base Number (BN)	mg KOH/g	ASTM D2896		6.63	7.98	6.78
	Visc @ 40°C	cSt	ASTM D445		98.8	98.6	98.5
		~C+	ACTM D445	15 /	12.2	10/	10/

Visc @ 100°C cSt

Viscosity Index (VI) Scale ASTM D2270 142

98.6 98.5 13.4

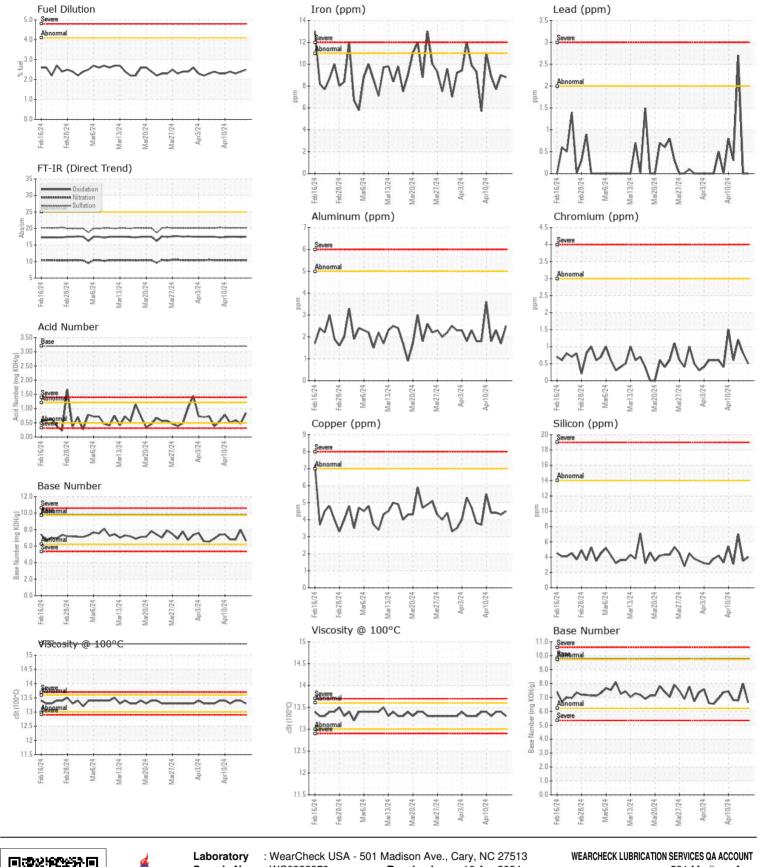
135 135

13.4

13.3

133

ASTM D445 15.4



WEARCHECK LUBRICATION SERVICES QA ACCOUNT Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0929370 501 Madison Ave Received : 16 Apr 2024 Lab Number : 06151289 Tested : 22 Apr 2024 Cary, NC Unique Number : 10981367 US 27513 Diagnosed : 22 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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