

WCLSNC Machine Id QC230801DE

Component Diesel Engine

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

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0906328	WC0906325	WC0906324
	Sample Date		Client Info		12 Feb 2024	09 Feb 2024	08 Feb 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	Iron	ppm	ASTM D5185m	>11	8	1	8
	Chromium	ppm	ASTM D5185m	>3	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	0	0	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>5	1	2	1
	Lead	ppm	ASTM D5185m	>2	0	1	<1
	Copper	ppm	ASTM D5185m	>7	4	4	5
	Tin	ppm	ASTM D5185m	>2	0	<1	<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	<1 <i>1</i> /	3	1	4
CONTAMINATION	Potassium		ASTM D5185m		1	1	4
There is no indication of any contamination in the oil.	Fuel	ppm %	ASTM D318511		2.6	3.0	2.6
	Water	%	ASTM D5524		NEG	NEG	NEG
	Glycol	%	*ASTM D0304	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D2982	>0.2	0.1	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624		10.3	7.1	10.4
	Sulfation	Abs/.1mm	*ASTM D7624		20.1	17.9	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		*Visual	>0.2	NEG	NEG	NEG
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FLUID CONDITION	Sodium	ppm	ASTM D5185m		7	8	3
	Boron	ppm	ASTM D5185m		11	8	6
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m		0	0	<1
oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m		51	48	53
	Manganese	ppm	ASTM D5185m		0	1	<1
	Magnesium	ppm	ASTM D5185m		564	507	541
	Calcium	ppm	ASTM D5185m		1588	1375	1464
	Phosphorus	ppm	ASTM D5185m		706	597	615
	Zinc	ppm	ASTM D5185m		976	854	941
	Sulfur	ppm	ASTM D5185m		2419	2108	2286
	Oxidation	Abs/.1mm	*ASTM D7414		17.3	14.3	17.4
	Acid Number (AN)				0.38	1.25	0.39
	Base Number (BN)	mg KOH/g	ASTM D2896		7.75	6.86	6.85
	Visc @ 40°C	cSt	ASTM D445		98.0	98.5	98.0
	Visc @ 100°C	cSt	ASTM D445	154	13.4	13.4	13.3

Visc @ 100°C cSt

Viscosity Index (VI) Scale ASTM D2270 142

ASTM D445 15.4

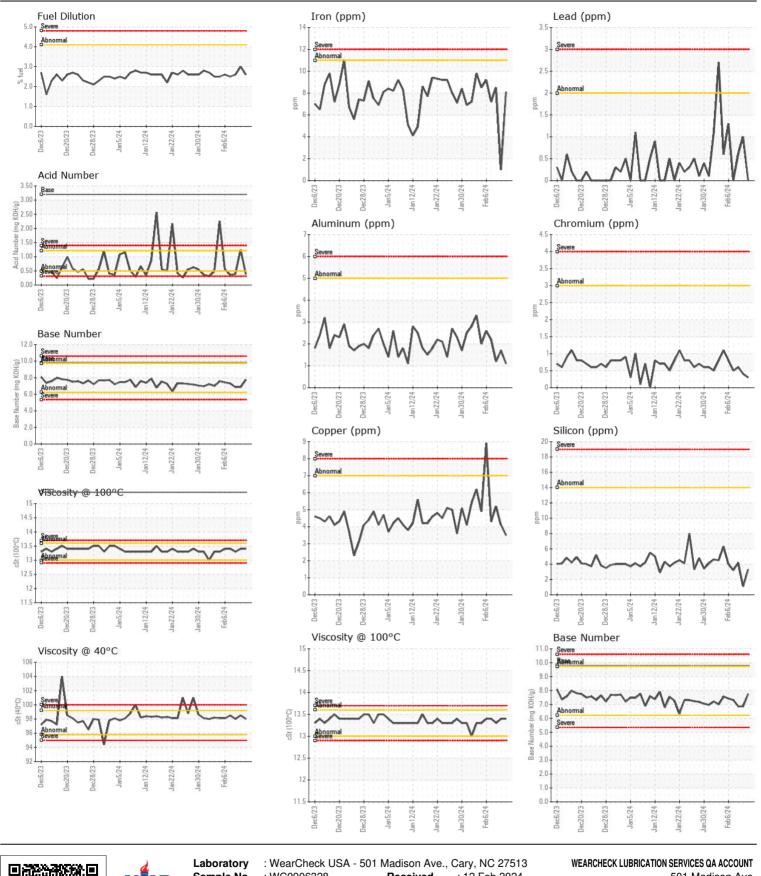
13.4

136

135 134

13.3

13.4



: WC0906328 : 12 Feb 2024 501 Madison Ave Sample No. Received : 06086182 : 15 Feb 2024 Lab Number Tested Cary, NC Unique Number : 10873627 : 15 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)