

## WCLSNC Machine Id QC230801DE

## Component Diesel Engine

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

FEINO CANADA DONON SHF 15W40 ( GAL	/						
RECOMMENDATION	Test Sample Number	UOM	Method Client Info	Limit/Abn	Current WC0906330	History1 WC0906329	History2 WC0906328
Resample at the next service interval to monitor.	Sample Date		Client Info		14 Feb 2024	13 Feb 2024	12 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	10	8
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	0	0
	Titanium	ppm	ASTM D5185m	>2	0	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>5	2	1	1
	Lead	ppm	ASTM D5185m	>2	<1	0	0
	Copper	ppm	ASTM D5185m	>7	4	5	4
	Tin	ppm	ASTM D5185m	>2	0	0	0
	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	4	3	3
	Potassium	ppm	ASTM D5185m	>20	<1	4	1
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>4.1	2.8	2.6	2.6
	Water	%	ASTM D6304	>0.2	NEG	NEG	NEG
	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	20.2	20.1	20.1
	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	7	6	7
	Boron	ppm	ASTM D5185m	0	6	6	11
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	51	54	51
	Manganese	ppm	ASTM D5185m	0	<1	0	0
	Magnesium	ppm	ASTM D5185m	1010	496	532	564
	Calcium	ppm	ASTM D5185m	1070	1406	1414	1588
	Phosphorus	ppm	ASTM D5185m	1150	618	644	706
	Zinc	ppm	ASTM D5185m	1270	896	922	976
	Sulfur	ppm	ASTM D5185m	2060	2188	2243	2419
	Oxidation	Abs/.1mm	*ASTM D7414	>17.9	17.3	17.3	17.3
	Acid Number (AN)	mg KOH/g	ASTM D8045	3.2	0.36	0.507	0.38
	Base Number (BN)		ASTM D2896		7.12	7.49	7.75
	Visc @ 40°C	cSt	ASTM D445		98.6	98.0	98.0
		oCt	ACTM D445	15 /	10.0	10.0	10/

Visc @ 100°C cSt

Viscosity Index (VI) Scale ASTM D2270 142

ASTM D445 15.4

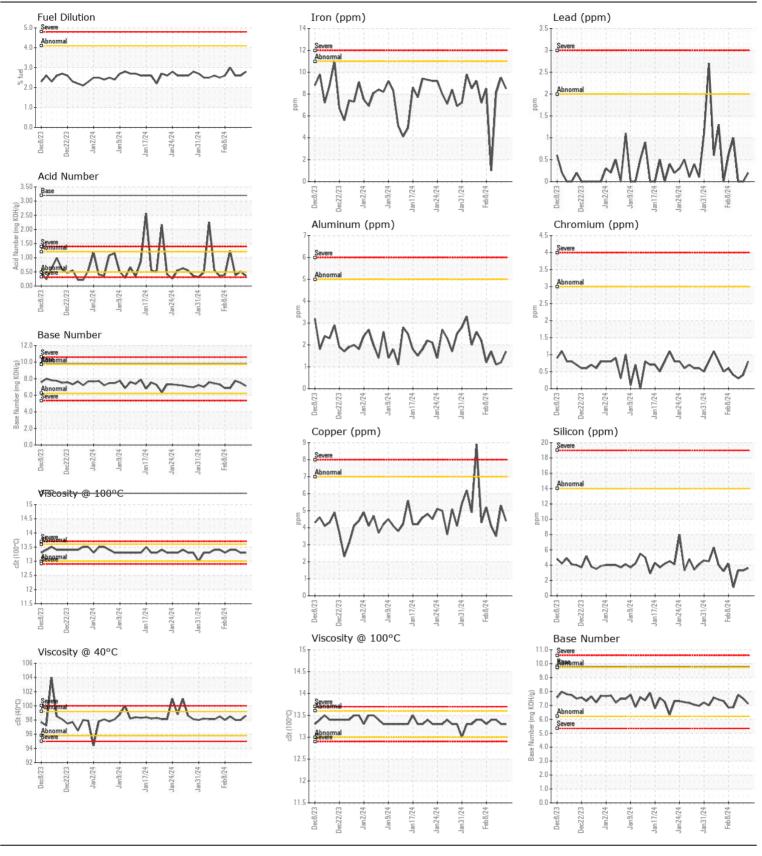
13.3

133

134 136

13.3

13.4



WEARCHECK LUBRICATION SERVICES QA ACCOUNT Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0906330 : 14 Feb 2024 501 Madison Ave Sample No. Received : 06089003 : 16 Feb 2024 Cary, NC Lab Number Tested Unique Number : 10876448 : 16 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 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)379-4050

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