

WCLSNC Machine Id QC230801DE

Diesel Engine

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

FLING CANADA DONON SHF 13W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0939693	WC0939692	WC0939691
	Sample Date		Client Info		09 May 2024	08 May 2024	07 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	NORMAL
WEAR All component wear rates are normal.	Iran		ASTM D5185m		0	7	10
	Iron	ppm			9		10
	Chromium Nickel	ppm	ASTM D5185m		1	<1 0	<1
		ppm	ASTM D5185m		<1 <1		0
	Titanium Silver	ppm	ASTM D5185m ASTM D5185m		<1 0	0	0
	Aluminum	ppm	ASTM D5185m		2	2	0
	Lead	ppm	ASTM D5185m		2	0	<1
	Copper	ppm ppm	ASTM D5185m		5	4	4
	Tin	ppm	ASTM D5185m		1	<1	0
	Vanadium	ppm	ASTM D5185m	~_	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>14	5	6	4
	Potassium	ppm	ASTM D5185m	>20	4	2	2
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>4.1	2.2	2.4	2.4
	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	10.3	10.4	10.4
	Sulfation	Abs/.1mm	*ASTM D7415	>20.8	19.8	20.1	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>13	5	6	7
	Boron	ppm	ASTM D5185m		6	8	9
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	<1	0
	Molybdenum		ASTM D5185m	60	50	50	50
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	510	535	558
	Calcium	ppm	ASTM D5185m		1451	1489	1635
	Phosphorus	ppm	ASTM D5185m	1150	688	682	783
	Zinc	ppm	ASTM D5185m	1270	907	896	949
	Sulfur	ppm	ASTM D5185m	2060	2624	2594	3478
	Oxidation	Abs/.1mm	*ASTM D7414	>17.9	17.1	17.2	17.3
	Acid Number (AN)	mg KOH/g	ASTM D8045	3.2	0.78	0.77	0.82
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.44	7.26	7.35
	Visc @ 40°C	cSt	ASTM D445		97.8	97.8	98.6
		0°5†	ASTM D445	15.4	12.2	12.2	12.2

Visc @ 100°C cSt

Viscosity Index (VI) Scale ASTM D2270 142

ASTM D445 15.4

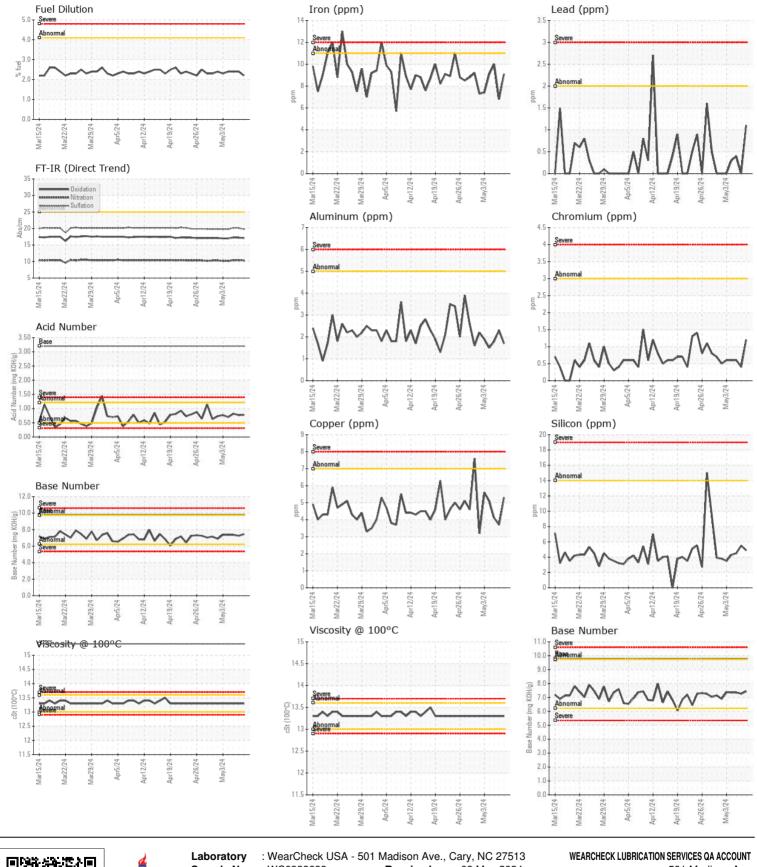
13.3

134

134 133

13.3

13.3



WEARCHECK LUBRICATION SERVICES QA ACCOUNT Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0939693 Received 501 Madison Ave :09 May 2024 Lab Number : 06174033 Tested : 15 May 2024 Cary, NC Unique Number : 11020086 : 15 May 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: ?