

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

## (BD33531)

## 912091

Component Diesel Engine

## PETRO CANADA DURON SHP 15W40 (44 QTS)

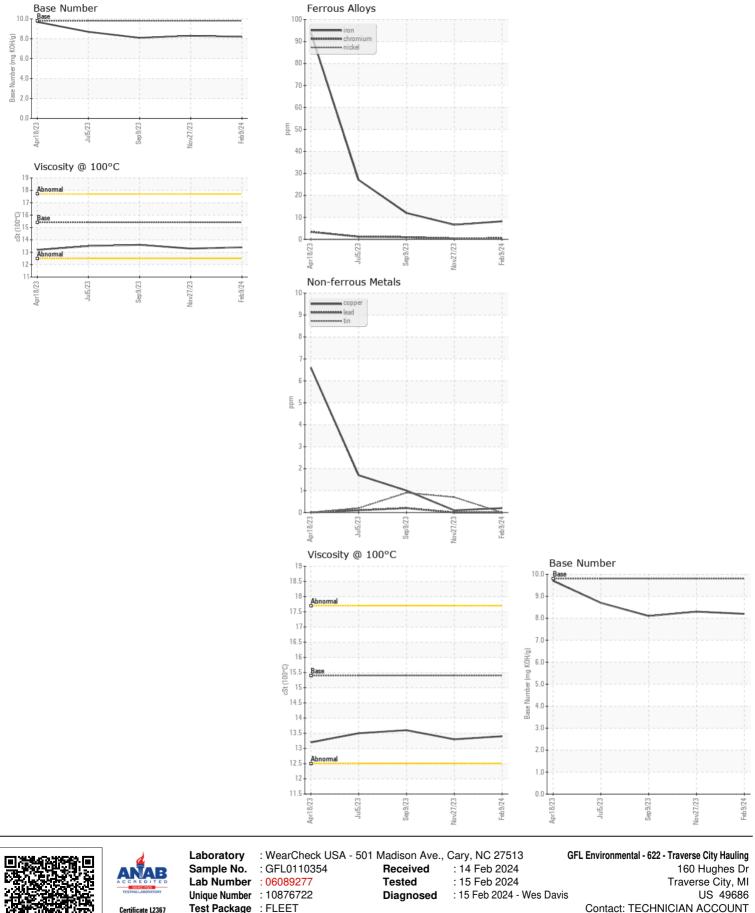
FEITIO GANADA DONON SHF 15WH0 (HH Q15	/						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0110354	GFL0103066	GFL0090536
	Sample Date		Client Info		09 Feb 2024	27 Nov 2023	09 Sep 2023
	Machine Age	hrs	Client Info		2925	2327	1742
	Oil Age	hrs	Client Info		588	585	585
	Filter Age	hrs	Client Info		588	585	585
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>90	8	7	12
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	1
	Nickel	ppm	ASTM D5185m	>2	0	<1	0
	Titanium	ppm	ASTM D5185m	>2	0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		1	2	2
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		<1	<1	1
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	2	2	3
	Potassium	ppm	ASTM D5185m		- <1	4	8
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0.4	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.1	7.1	7.1
	Sulfation	Abs/.1mm	*ASTM D7415		18.7	18.6	18.5
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	2	4
	Boron		ASTM D5185m	0	11	4	1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		62	61	60
	Manganese	ppm	ASTM D5185m		02 <1	<1	<1
	Magnesium		ASTM D5185m		877	919	970
	Calcium	ppm	ASTM D5185m		1055	1048	1124
		ppm	ASTM D5185m ASTM D5185m				
	Phosphorus	ppm			875	1057	1007
	Zinc	ppm	ASTM D5185m		1176	1282	1242
	Sulfur	ppm	ASTM D5185m		2884	3096	3535
	Oxidation	Abs/.1mm	*ASTM D7414		14.0	13.8	14.0
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	8.3	8.1

Visc @ 100°C cSt ASTM D445 15.4

13.3

13.4

13.6



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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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