

(YA146823) Whiteville NC 10912

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (6 GAL)

PETRO CANADA DORON SHP 15W40 (0 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0083368	GFL0083358	GFL0083335
	Sample Date		Client Info		12 Feb 2024	11 Sep 2023	31 May 2023
	Machine Age	hrs	Client Info		12900	10676	0
	Oil Age	hrs	Client Info		600	600	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>75	24	17	15
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	<1	<1	0
	Nickel	ppm	ASTM D5185m	>4	0	<1	0
	Titanium	ppm	ASTM D5185m	>2	0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		3	2	4
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		2	1	1
	Tin	ppm		>4	0	<1	0
	Vanadium	ppm	ASTM D5185m	NONE	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	5	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	2	0
	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.6	0.7	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	7.1	7.7	7.2
	Sulfation	Abs/.1mm	*ASTM D7415		19.3	19.9	19.8
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE NORML
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
		304141	Visual	20.2		NLG	NLO
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	6	5
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		1	5	<1
	Barium	ppm	ASTM D5185m		9	0	0
	Molybdenum	ppm	ASTM D5185m		94	64	63
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		1428	1023	1024
	Calcium	ppm	ASTM D5185m		1421	1145	1136
	Phosphorus	ppm	ASTM D5185m		1222	1110	1043
	Zinc	ppm	ASTM D5185m		1774	1396	1306
	Sulfur	ppm	ASTM D5185m		4003	3828	3622
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	14.9	15.3

Base Number (BN) mg KOH/g ASTM D2896 9.8

ASTM D445 15.4

Visc @ 100°C cSt

8.1

14.1

8.4

14.4

NORMAL

NORMAL

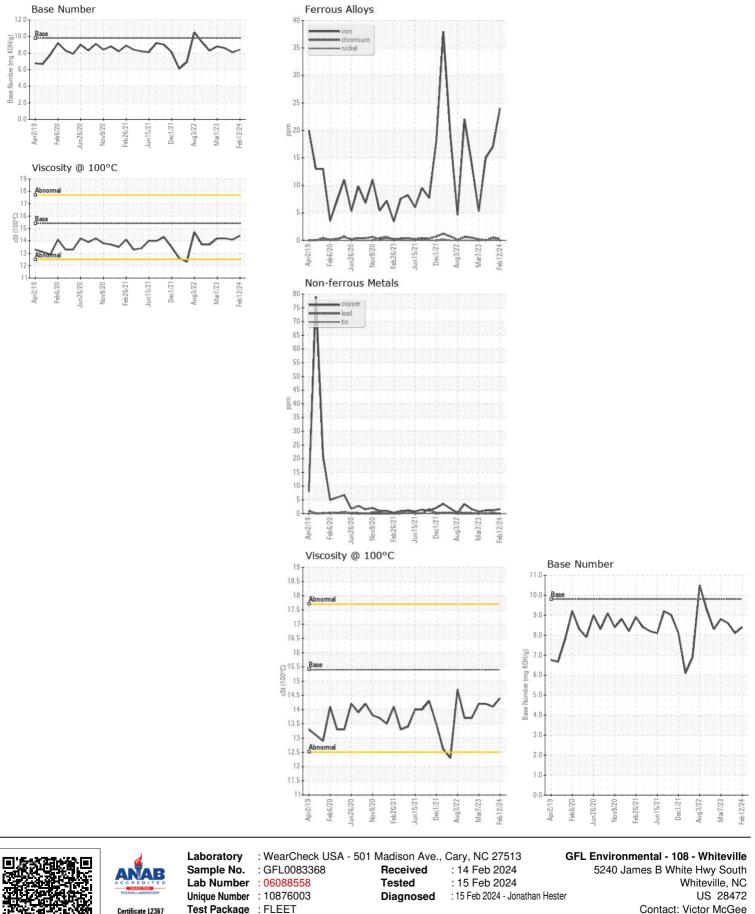
NORMAL

WEAR

CONTAMINATION FLUID CONDITION

8.6

14.2



Centificate 12367 Test Package : FLEET 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)

Submitted By: JOHNNY LANDRUM

victor.mcgee@gflenv.com

Т:

F: