

## WEAR NORMAL CONTAMINATION NORMAL **FLUID CONDITION** NORMAL

## (YA133467)

## 2640C

Natural Gas Engine

## PETRO CANADA DURON GEO LD 15W40 (38 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. ( Customer Sample Comment: oil service )	Sample Number		Client Info		GFL0124464		GFL0073833
	Sample Date		Client Info		18 Jun 2024	05 Feb 2024	26 Apr 2023
	Machine Age	hrs	Client Info		14408	13588	12514
	Oil Age	hrs	Client Info		875	1074	1132
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Oil Added	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
					10	4	10
WEAR	Iron	ppm	ASTM D5185m		10 2	4	13
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m ASTM D5185m		2	<1 0	3
	Titanium	ppm	ASTM D5185m	>2	0 <1	<1	<1
	Silver	ppm	ASTM D5185m	.2	0	0	0
	Aluminum	ppm ppm	ASTM D5185m		2	2	2
	Lead	ppm	ASTM D5185m		- <u>-</u> 11	2	7
	Copper	ppm	ASTM D5185m		2	0	1
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m	21	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>+100	5	5	2
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	0	<1
	Water		WC Method	>0.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	11.7	11.7	12.1
	Sulfation	Abs/.1mm	*ASTM D7415		26.2	24.0	26.1
	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	>0.1	NEG	NEG	NEG
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m		7	6	8
	Boron	ppm	ASTM D5185m	50	14	12	0
	Barium	ppm	ASTM D5185m	5	0	0	0
	Molybdenum	ppm	ASTM D5185m	50	56	53	54
	Manganese	ppm	ASTM D5185m	0	<1	<1	1
	Magnesium	ppm	ASTM D5185m	560	650	558	638
	Calcium	ppm	ASTM D5185m	1510	1970	1511	1869
	Discourse		AOTH DEADE	700	000	075	040

Phosphorus

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

ppm

ppm

ppm

Base Number (BN) mg KOH/g ASTM D2896 10.2

ASTM D5185m 780

ASTM D5185m 870

Abs/.1mm \*ASTM D7414 >25

ASTM D5185m 2040

ASTM D445 15.1

675

945

2275

20.8

3.9

14.5

812

1088

22.3

3.9

14.5

3271

888

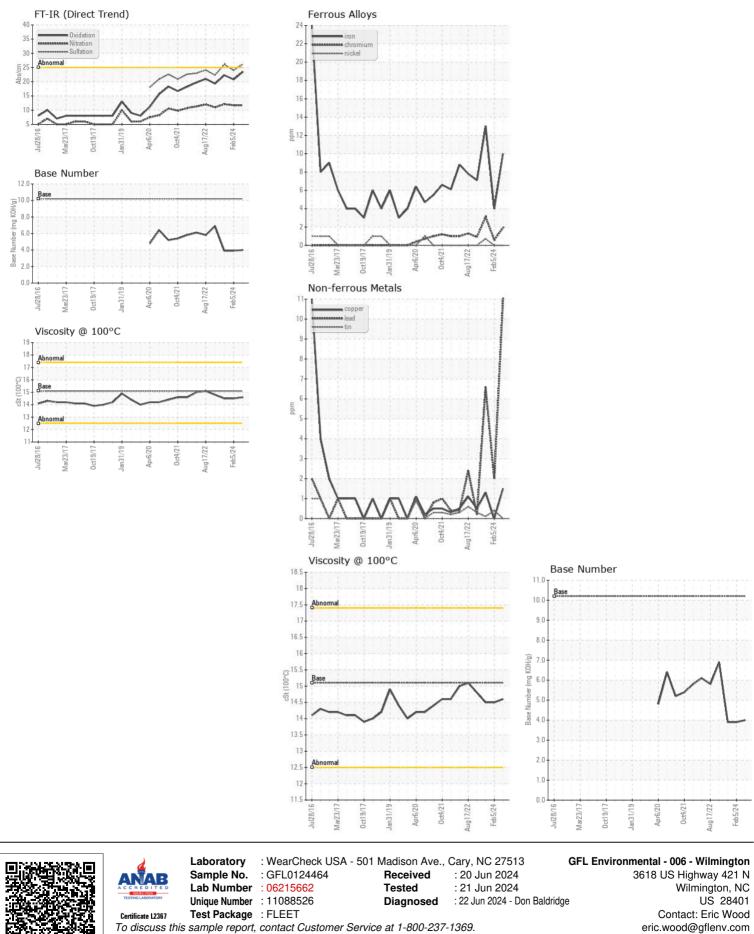
1146

3133

23.5

4.0

14.6



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)

Submitted By: NEIL GRIFFIN Page 2 of 2

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