

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend





Component

Natural Gas Engine

## PETRO CANADA DURON SHP 15W40 (27 QTS)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

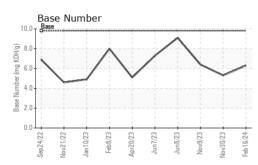
#### Fluid Condition

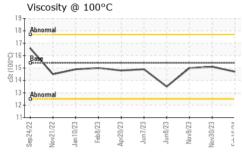
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

QTS)		Sep2022 Nov2	022 Jan2023 Feb2023 Apr2	023 Jun2023 Jun2023 Nov2023 Nov	2023 Feb2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info Client Info		GFL0092177 16 Feb 2024	GFL0092074 30 Nov 2023	GFL0091993 09 Nov 2023
Machine Age	hrs	Client Info		4334	3761	3952
Oil Age Oil Changed	hrs	Client Info Client Info		16832 Changed	600 Changed	0 Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	6	6
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm		>2	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	2	1
Lead	ppm	ASTM D5185m	>30	0	<1	0
Copper	ppm	ASTM D5185m	>35	0	<1	0
Tin	ppm	ASTM D5185m	>4	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	15	12	19
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	50	55	51
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	544	608	609
Calcium	ppm	ASTM D5185m	1070	1526	1668	1664
Phosphorus	ppm	ASTM D5185m	1150	702	754	797
Zinc	ppm	ASTM D5185m	1270	941	1055	1048
Sulfur	ppm	ASTM D5185m	2060	2267	2595	2547
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	3	4
Sodium	ppm	ASTM D5185m		5	5	4
Potassium	ppm	ASTM D5185m	>20	1	1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.4	11.4	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	22.1	20.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	18.8	17.9
Base Number (BN)	mg KOH/g		9.8	6.3	5.3	6.4
	0					

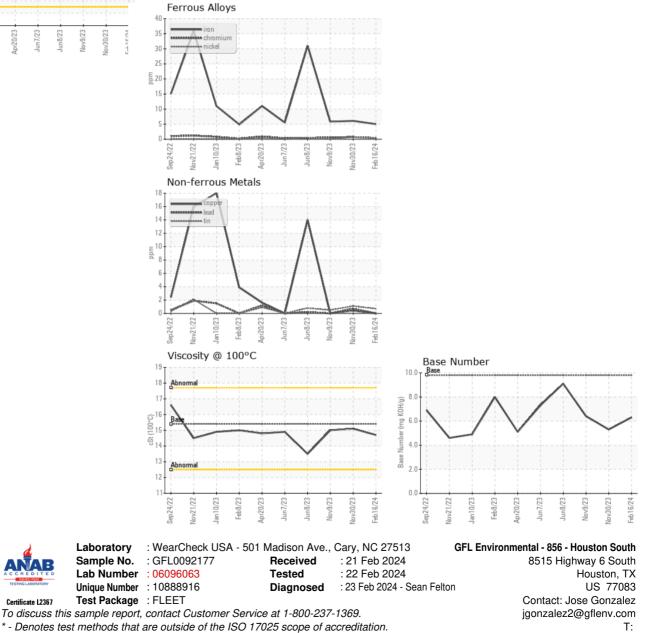


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.7	15.1	15.0
GRAPHS						



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

Certificate L2367

Submitted By: Apolinar Zacarias Page 2 of 2

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