

# **OIL ANALYSIS REPORT**

#### Sample Rating Trend





Component

# Diesel Engine

## PETRO CANADA DURON SHP 15W40 (12 GAL)

### 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.

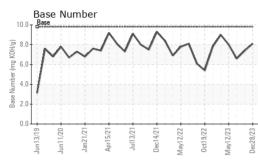
### Fluid Condition

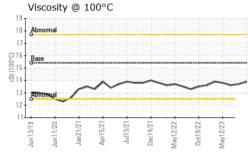
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

iAL)						
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098491	GFL0098505	GFL0082233
Sample Date		Client Info		28 Dec 2023	13 Nov 2023	22 Jun 2023
Machine Age	hrs	Client Info		13422	13152	11979
Dil Age	hrs	Client Info		270	1173	570
Dil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Nater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	6	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	2	5	8
Chromium	ppm	ASTM D5185m		0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		2	2	1
ead	ppm	ASTM D5185m		0	0	<1
Copper	ppm		>330	<1	0	2
Fin	ppm	ASTM D5185m	>15	<1	<1	<1
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	4	4
Barium	ppm	ASTM D5185m		0	0	0
Nolybdenum	ppm	ASTM D5185m	60	56	57	68
Manganese	ppm	ASTM D5185m		<1	0	<1
/agnesium	ppm	ASTM D5185m	1010	936	954	960
Calcium	ppm	ASTM D5185m	1070	1027	1049	1198
Phosphorus	ppm	ASTM D5185m	1150	1012	996	1068
Zinc	ppm	ASTM D5185m	1270	1254	1291	1351
Sulfur	ppm	ASTM D5185m	2060	2955	2811	3260
CONTAMINAN	ſS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	3
Sodium	ppm	ASTM D5185m		2	1	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.3	7.7	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	19.7	20.4
FLUID DEGRAD	ATI <u>ON</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	15.3	17.0
Base Number (BN)	mg KOH/g	ASTM D2896		8.1	7.4	6.6
()	99	2				

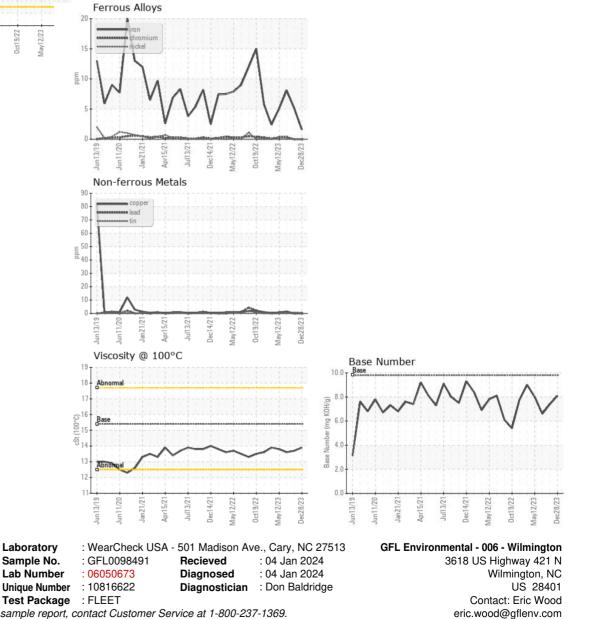


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	>0.2	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	13.9	13.7	13.6
GRAPHS						



Certificate L2367 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)

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