

### **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

# Machine Id 523005-7219

#### Component **Diesel Engine**

Fluic PETRO CANADA DURON SHP 15W40 (--- L1

#### 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

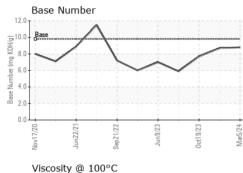
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

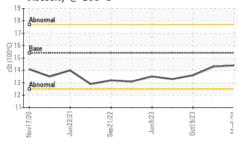
TR)		Nov2020	Jun2021 Sep2022	Jun2023 Oct2023	Mar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0058118	GFL0045473	GFL0091801
Sample Date		Client Info		05 Mar 2024	12 Dec 2023	19 Oct 2023
Machine Age	hrs	Client Info		25050	24736	24469
Dil Age	hrs	Client Info		324	0	21220
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
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
WEAR METALS	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	2	6	7
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Fitanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	2	3
_ead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	2	2
Fin (and a diama	ppm	ASTM D5185m	>15	<1	<1	1
/anadium	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	2	<1
Barium	ppm		0	0	12	0
Molybdenum	ppm	ASTM D5185m	60	55	59	52
Manganese	ppm		0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1056	956	939
	ppm	ASTM D5185m	1070	1141	1038	964
Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m	1150 1270	1046 1309	1011 1224	888 1184
Sulfur	ppm ppm	ASTM D5185m		3143	3385	2694
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	4	5
Sodium	ppm	ASTM D5185m		1	<1	3
Potassium	ppm	ASTM D5185m	>20	0	4	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.1	0.3
Nitration	Abs/cm	*ASTM D7624		5.5	5.3	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	18.0	18.4
FLUID DEGRAD	)ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	13.6	14.4

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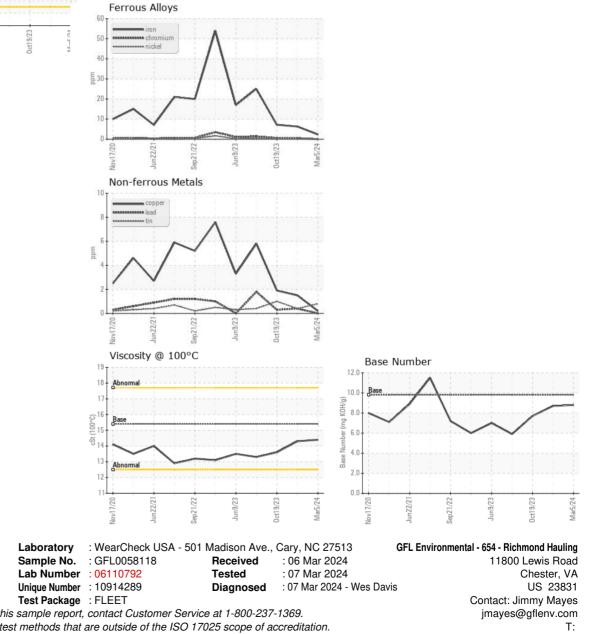


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.4	14.3	13.6
GRAPHS						





Certificate L2367 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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