

# **OIL ANALYSIS REPORT**

#### Sample Rating Trend



## Machine Id 910008

Component Diesel Engine

# PETRO CANADA DURON SHP 15W40 (11 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.

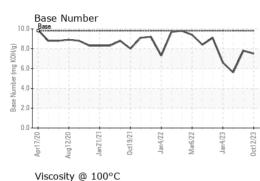
### Fluid Condition

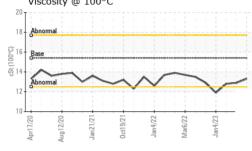
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)									
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0083655	GFL0074605	GFL0083634			
Sample Date		Client Info		12 Oct 2023	11 Jul 2023	29 Jun 2023			
Machine Age	hrs	Client Info		13052	9464	9384			
Dil Age	hrs	Client Info		530	546	466			
Dil Changed		Client Info		Not Changd	Changed	Not Changd			
Sample Status				NORMAL	NORMAL	MARGINAL			
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Fuel		WC Method	>5	<1.0	<1.0	<b>3</b> .7			
Glycol		WC Method		NEG	NEG	NEG			
WEAR METAL	S	method	limit/base	current	history1	history2			
ron	ppm	ASTM D5185m	>100	8	12	9			
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1			
Nickel	ppm	ASTM D5185m	>4	<1	<1	0			
Fitanium	ppm	ASTM D5185m		0	0	0			
Silver	ppm	ASTM D5185m	>3	0	0	0			
Aluminum	ppm	ASTM D5185m	>20	0	1	<1			
ead	ppm	ASTM D5185m	>40	0	0	<1			
Copper	ppm	ASTM D5185m	>330	<1	<1	<1			
Гin	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	<1	7	8			
Barium	ppm	ASTM D5185m	0	2	0	2			
Nolybdenum	ppm	ASTM D5185m	60	57	60	61			
Manganese	ppm	ASTM D5185m	0	<1	<1	<1			
Magnesium	ppm	ASTM D5185m	1010	770	775	729			
Calcium	ppm	ASTM D5185m	1070	957	1043	1054			
Phosphorus	ppm	ASTM D5185m	1150	883	897	896			
Zinc	ppm	ASTM D5185m	1270	1031	1070	1051			
Sulfur	ppm	ASTM D5185m	2060	2567	2706	2901			
CONTAMINAN	TS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	3	4	3			
Sodium	ppm	ASTM D5185m	-	<1	2	0			
Potassium	ppm	ASTM D5185m	>20	2	2	2			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.4	0.7	1.1			
Nitration	Abs/cm	*ASTM D7624		7.1	8.1	11.6			
Sulfation	Abs/.1mm	*ASTM D7415		18.2	19.7	24.7			
FLUID DEGRAD	DAT <u>ION</u>	method	limit/base	current	history1	history2			
	Ales/dame	*ASTM D7414	>25	10.5	15.1	21.9			
Oxidation	Abs/.1mm	ASTIVI D7414	>20	13.5	10.1	21.3			



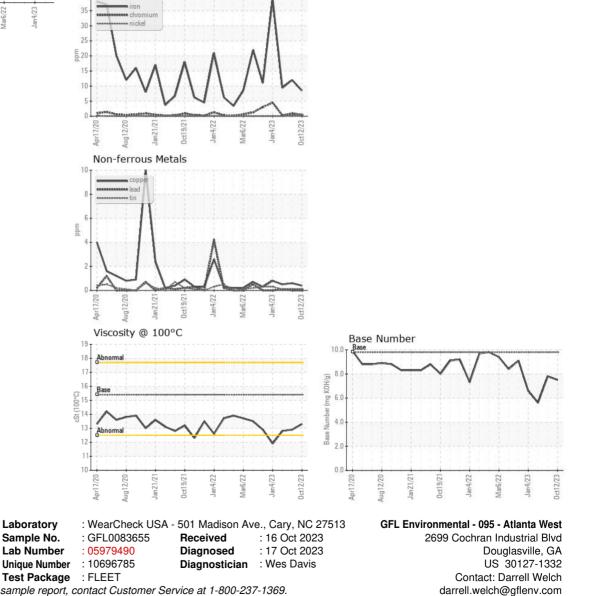
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.3	12.9	12.8
GRAPHS						
Ferrous Alloys						



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)

Certificate L2367

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