

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend





## Component

Diesel Engine

## PETRO CANADA DURON SHP 15W40 (--- 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.

		Apr2021	Jul2021 Sep2021 Oct20.			
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0027549	GFL0082812	GFL0082775
Sample Date		Client Info		19 Sep 2023	13 Jun 2023	23 May 2023
Machine Age	hrs	Client Info		11106	14727	14563
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS	6	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	25	9	32
Chromium	ppm	ASTM D5185m	>20	2	<1	2
Nickel	ppm	ASTM D5185m	>4	1	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	7	1	9
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	3	<1	3
Tin	ppm	ASTM D5185m	>15	<1	0	<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	3	1	2
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m	60	60	60	60
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	946	986	990
Calcium	ppm	ASTM D5185m	1070	1092	1122	1107
Phosphorus	ppm	ASTM D5185m	1150	1036	1042	1050
Zinc	ppm	ASTM D5185m	1270	1282	1282	1336
Sulfur	ppm	ASTM D5185m	2060	3144	3699	3554
CONTAMINAN	ſS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	2	4
Sodium	ppm	ASTM D5185m		6	5	5
Potassium	ppm	ASTM D5185m	>20	7	1	8
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.3	0.7
Nitration	Abs/cm	*ASTM D7624	>20	10.9	7.1	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	19.6	22.5
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	15.1	19.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.5	8.7	6.9



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