

## **OIL ANALYSIS REPORT**

Sample Rating Trend





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

### DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Tests indicate that there is no fuel present in the oil. 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.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0114334	GFL0069860	
Sample Date		Client Info		15 Mar 2024	11 May 2023	
Machine Age	hrs	Client Info		0	16354	
Oil Age	hrs	Client Info		0	600	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	SEVERE	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	10	67	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>5	<1	2	
Titanium	ppm	ASTM D5185m	>2	<1	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	<b>7</b>	
Lead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	3	4	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	68	10	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	31	33	
Manganese	ppm	ASTM D5185m	0	<1	1	
Magnesium	ppm	ASTM D5185m	1010	426	480	
Calcium	ppm	ASTM D5185m	1070	1632	609	
Phosphorus	ppm	ASTM D5185m	1150	939	689	
Zinc	ppm	ASTM D5185m	1270	1191	736	
Sulfur	ppm	ASTM D5185m	2060	3204	5541	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	<b>4</b> 29	
Sodium	ppm	ASTM D5185m		6	25	
Potassium	ppm	ASTM D5185m	>20	6	30	
Fuel	%	ASTM D3524	>3.0	0.4	<b>1</b> 1.3	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	8.1	5.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	21.4	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	18.4	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.1	8.9	



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