

## **OIL ANALYSIS REPORT**

Sample Rating Trend





**Diesel Engine** 

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

DIAGNOSIS	SAMPLE INFORM	<b>/ATION</b>	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		GFL0114336	GFL0069828	
No corrective action is recommended at this time.	Sample Date		Client Info		15 Mar 2024	14 Jun 2023	
Resample at the next service interval to monitor.	Machine Age	hrs	Client Info		22360	20773	
Wear	Oil Age	hrs	Client Info		0	600	
/alve wear is indicated. All other component wear	Oil Changed		Client Info		Not Changd	Changed	
ates are normal.	Sample Status				ABNORMAL		
Contamination	CONTAMINATI		method	limit/base	current	history1	history2
here is no indication of any contamination in the							
il.	Fuel				<1.0	<1.0	
luid Condition	Water		WC Method	>0.2	NEG	NEG	
he BN result indicates that there is suitable kalinity remaining in the oil. The condition of the	Glycol		WC Method		NEG	NEG	
I is suitable for further service.	WEAR METALS	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	31	7	
	Chromium	ppm	ASTM D5185m	>20	2	0	
	Nickel	ppm	ASTM D5185m	>5	<u> </u>	<1	
	Titanium	ppm	ASTM D5185m	>2	<1	0	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m	>20	2	2	
	Lead	ppm	ASTM D5185m	>40	<1	0	
	Copper	ppm	ASTM D5185m	>330	3	0	
	Tin	ppm	ASTM D5185m	>15	2	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	Cadmium	ppm	ASTM D5185m		0	0	
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	2	4	
	Barium	ppm	ASTM D5185m	0	0	0	
	Molybdenum	ppm	ASTM D5185m		59	58	
	Manganese	ppm	ASTM D5185m	0	1	<1	
	Magnesium	ppm	ASTM D5185m		913	951	
	Calcium	ppm	ASTM D5185m		1082	1047	
	Phosphorus	ppm	ASTM D5185m		960	1088	
	Zinc	ppm	ASTM D5185m		1228	1303	
	Sulfur	ppm	ASTM D5185m	2060	2573	3047	
	CONTAMINAN	TS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	6	3	
	Sodium	ppm	ASTM D5185m		5	2	
	Potassium	ppm	ASTM D5185m	>20	2	<1	
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844		1.1	0.5	
	Nitration	Abs/cm	*ASTM D7624		9.6	8.1	
	Sulfation	Abs/.1mm	*ASTM D7024		23.1	18.9	
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7	15.4	

Base Number (BN) mg KOH/g ASTM D2896 9.8

4.7

7.3



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