

# **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id **714057** Component **Diesel Engine** Fluid

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

## DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

#### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

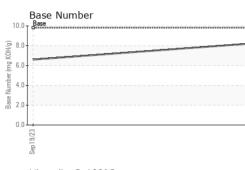
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

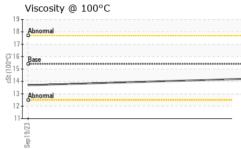
N SHP 15W40 (	- GAL)		Sep2023	Dec2023		
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0107053	GFL0027559	
Sample Date		Client Info		20 Dec 2023	19 Sep 2023	
Machine Age	hrs	Client Info		1142	443	
Oil Age	hrs	Client Info		600	600	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	31	34	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	1	
Titanium	ppm	ASTM D5185m	>2	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	5	
Lead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	2	13	
Tin	ppm	ASTM D5185m	>15	<1	<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	4	55	
Barium	ppm	ASTM D5185m	0	0	6	
Volybdenum	ppm	ASTM D5185m	60	63	103	
Manganese	ppm	ASTM D5185m	0	<1	6	
Magnesium	ppm	ASTM D5185m	1010	906	682	
Calcium	ppm	ASTM D5185m	1070	1075	1185	
Phosphorus	ppm	ASTM D5185m	1150	985	723	
Zinc	ppm	ASTM D5185m	1270	1201	884	
Sulfur	ppm	ASTM D5185m	2060	3183	2755	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm		>25	3	14	
Sodium	ppm	ASTM D5185m		4	3	
Potassium	ppm	ASTM D5185m	>20	3	5	
otaootani		method				history2
INFRA-RED		method				
INFRA-RED	%	*ASTM D7844	>6	0.8	0.4	
INFRA-RED Soot %	% Abs/cm		>6 >20			
		*ASTM D7844		0.8	0.4	
INFRA-RED Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624	>20	0.8 9.8	0.4 10.3	
INFRA-RED Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >30	0.8 9.8 21.0	0.4 10.3 20.1	

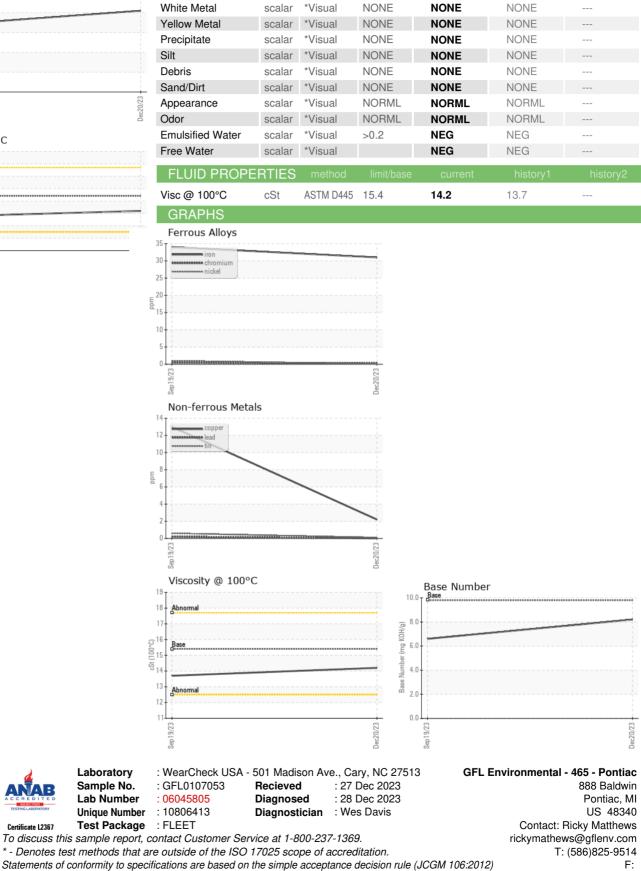


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VISUAL







Certificate L2367