

## **OIL ANALYSIS REPORT**

Sample Rating Trend





DIAGNOSIS

Machine Id 525097 Component

Fluid

**Diesel Engine** 

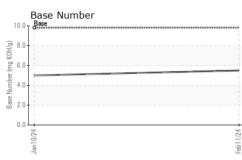
## PETRO CANADA DURON SHP 15W40 (-GAL)

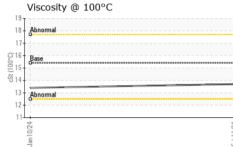
Recommendation	Sample Number	
Resample at the next service interval to monitor.	Sample Date	
Wear	Machine Age	hrs
All component wear rates are normal.	Oil Age	hrs
Contamination	Oil Changed	
There is no indication of any contamination in the	Sample Status	
oil.	CONTAMINAT	ION
Fluid Condition	Fuel	
The BN result indicates that there is suitable	Water	
alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Glycol	
	•	
	WEAR METALS	
	Iron	ppm
	Iron Chromium	ppm ppm
	Chromium	ppm
	Chromium Nickel	ppm ppm
	Chromium Nickel Titanium	ppm ppm ppm
	Chromium Nickel Titanium Silver	ppm ppm ppm ppm
	Chromium Nickel Titanium Silver Aluminum	ppm ppm ppm ppm ppm
	Chromium Nickel Titanium Silver Aluminum Lead	ppm ppm ppm ppm ppm ppm
	Chromium Nickel Titanium Silver Aluminum Lead Copper	ppm ppm ppm ppm ppm ppm ppm
	Chromium Nickel Titanium Silver Aluminum Lead Copper Tin	ppm ppm ppm ppm ppm ppm ppm ppm
	Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium	ppm ppm ppm ppm ppm ppm ppm ppm

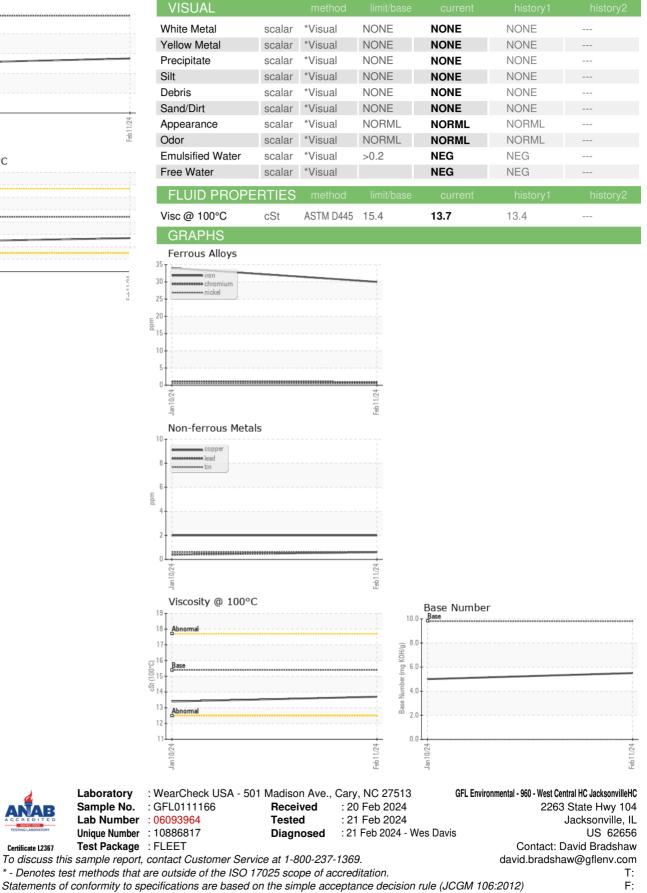
ON SHP 15W40 (	- GAL)		Jan2024	Feb2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111166	GFL0102114	
Sample Date		Client Info		11 Feb 2024	10 Jan 2024	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		600	600	
Oil Changed		Client Info		Changed	Changed	
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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	30	34	
Chromium	ppm	ASTM D5185m	>20	<1	1	
Nickel	ppm	ASTM D5185m		<1	<1	
Titanium	ppm	ASTM D5185m	>2	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	7	7	
Lead	ppm	ASTM D5185m	>40	<1	<1	
Copper	ppm	ASTM D5185m	>330	2	2	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	<1	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	58	58	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	904	987	
Calcium	ppm	ASTM D5185m	1070	993	1024	
Phosphorus	ppm	ASTM D5185m	1150	949	1016	
Zinc	ppm	ASTM D5185m	1270	1147	1238	
Sulfur	ppm	ASTM D5185m	2060	2505	2598	
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	10	
Sodium	ppm	ASTM D5185m		5	5	
Potassium	ppm	ASTM D5185m	>20	0	1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.6	0.6	
Nitration	Abs/cm	*ASTM D7624		10.1	10.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	22.0	
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	19.2	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.5	5.0	



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Certificate L2367