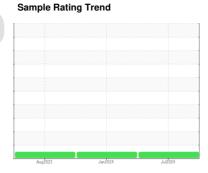


# **OIL ANALYSIS REPORT**



Machine Id
720054
Component
Diesel Engine
Fluid

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

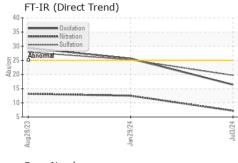
### **Fluid Condition**

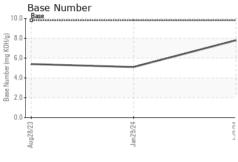
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

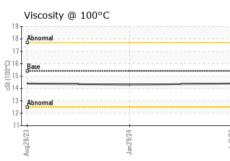
SAMPLE INFORM	MATION	method	limit/base	ourront.	history1	history2			
	VIATION		IIIIIIVDase		•	•			
Sample Number		Client Info		GFL0119884	GFL0103604	GFL0085291			
Sample Date		Client Info		03 Jul 2024	29 Jan 2024	28 Aug 2023			
Machine Age	hrs	Client Info		0	0	0			
Oil Age	hrs	Client Info		530	500	0			
Oil Changed		Client Info		N/A	N/A	N/A			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINATI	ION	method	limit/base	current	history1	history2			
Fuel		WC Method	>5	<1.0	<1.0	<1.0			
Water		WC Method	>0.2	NEG	NEG	NEG			
Glycol		WC Method		NEG	NEG	NEG			
WEAR METALS	S	method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>80	8	39	66			
Chromium	ppm	ASTM D5185m	>5	0	1	2			
Nickel	ppm	ASTM D5185m	>2	0	<1	<1			
Titanium	ppm	ASTM D5185m		0	<1	0			
Silver	ppm	ASTM D5185m	>3	0	0	0			
Aluminum	ppm	ASTM D5185m	>30	1	4	3			
Lead	ppm	ASTM D5185m	>30	0	<1	0			
Copper	ppm	ASTM D5185m	>150	<1	5	5			
Tin	ppm	ASTM D5185m	>5	0	<1	0			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	<1	<1	0			
Barium	ppm	ASTM D5185m	0	0	<1	0			
Molybdenum	ppm	ASTM D5185m	60	61	61	60			
Manganese	ppm	ASTM D5185m	0	<1	<1	1			
Magnesium	ppm	ASTM D5185m	1010	1066	913	974			
Calcium	ppm	ASTM D5185m	1070	1211	1072	1114			
Phosphorus	ppm	ASTM D5185m	1150	1125	934	999			
Zinc	ppm	ASTM D5185m	1270	1397	1206	1274			
Sulfur	ppm	ASTM D5185m	2060	3857	2834	3144			
CONTAMINANTS method limit/base current history1 hist									
Silicon	ppm	ASTM D5185m	>20	4	8	13			
Sodium	ppm	ASTM D5185m		5	5	10			
Potassium	ppm	ASTM D5185m	>20	2	8	4			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.2	0.8	1.1			
Nitration	Abs/cm	*ASTM D7624	>20	7.2	12.5	13.2			
Sulfation	Abs/.1mm	*ASTM D7415		19.7	25.2	27.9			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	25.6	29.4			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	5.1	5.4			
= ass riamber (bit)	mg nong		3.0	7.0	0.1	0.1			

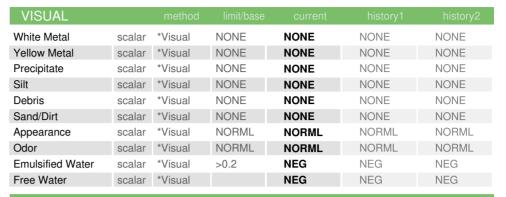


# **OIL ANALYSIS REPORT**



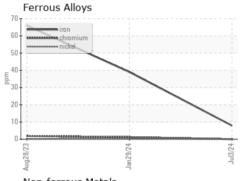


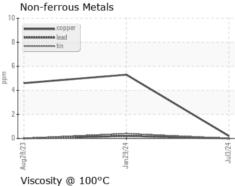


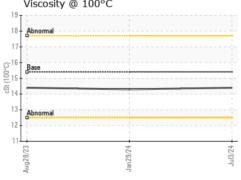


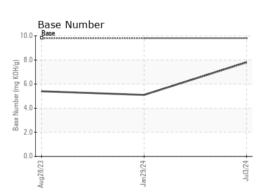
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.3	14.4

### **GRAPHS**













Laboratory Sample No.

: GFL0119884 Lab Number : 06231087 Unique Number : 11114580

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

: 08 Jul 2024 : 10 Jul 2024 Diagnosed : 10 Jul 2024 - Wes Davis

GFL Environmental - 958 - Tri County HC Morton

1090 W. Jefferson St. Morton, IL US 61550

Contact: Bryan Link

blink@gflenv.com

Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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