

# **OIL ANALYSIS REPORT**

# Sample Rating Trend

# NORMAL



Machine Id
727062-361322
Component
Diesel Engine

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

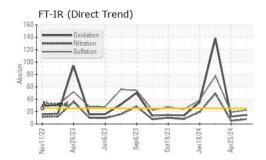
# **Fluid Condition**

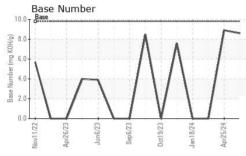
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

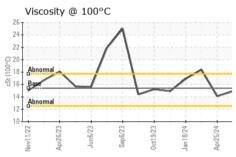
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SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0123157	GFL0104872	GFL0104844			
Sample Date		Client Info		27 May 2024	25 Apr 2024	25 Mar 2024			
Machine Age	mls	Client Info		0	229894	229894			
Oil Age	mls	Client Info		0	9828	220066			
Oil Changed		Client Info		N/A	N/A	N/A			
Sample Status				NORMAL	NORMAL	SEVERE			
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0			
Water		WC Method	>0.2	NEG	NEG	NEG			
Glycol		WC Method		NEG	NEG	NEG			
WEAR METAL	.S	method	limit/base	current	history1	history2			
ron	ppm	ASTM D5185m	>120	9	3	19			
Chromium	ppm	ASTM D5185m	>20	<1	0	<1			
Nickel	ppm	ASTM D5185m	>5	0	0	<1			
Titanium	ppm	ASTM D5185m	>2	<1	0	0			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>20	4	<1	2			
Lead	ppm	ASTM D5185m	>40	<1	0	2			
Copper	ppm	ASTM D5185m	>330	2	<1	5			
Γin	ppm	ASTM D5185m	>15	<1	0	<1			
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	0	<1			
Barium	ppm	ASTM D5185m	0	1	0	0			
Molybdenum	ppm	ASTM D5185m	60	59	55	51			
Manganese	ppm	ASTM D5185m	0	0	0	<1			
Magnesium	ppm	ASTM D5185m	1010	887	919	858			
Calcium	ppm	ASTM D5185m	1070	1101	1068	972			
Phosphorus	ppm	ASTM D5185m	1150	984	1010	920			
Zinc	ppm	ASTM D5185m	1270	1203	1201	1133			
Sulfur	ppm	ASTM D5185m	2060	3240	3597	2860			
CONTAMINANTS method limit/base current history1 history2									
Silicon	ppm	ASTM D5185m	>25	3	2	2			
Sodium	ppm	ASTM D5185m		0	<1	<1			
Potassium	ppm	ASTM D5185m	>20	2	0	<1			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>4	2.5	1.3	<b>8.8</b>			
Nitration	Abs/cm	*ASTM D7624	>20	7.8	5.2	49.2			
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	18.8	77.5			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	12.0	138.3			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	8.9	<u> </u> 0.0			
(214)	9		3.0	0.0	0.0				

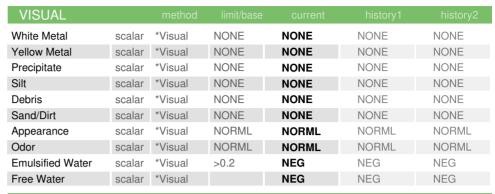


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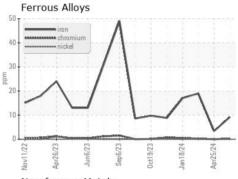


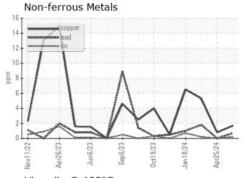


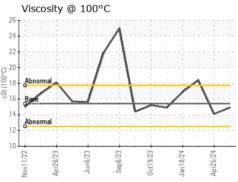


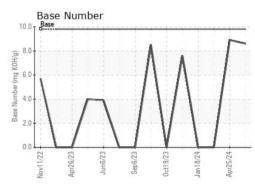
L LLOID PROPI		memoa			riistory i	Historyz
Visc @ 100°C	cSt	ASTM D445	15.4	14.9	14.1	<b>▲</b> 18.4

## **GRAPHS**













Certificate 12367

Laboratory Sample No. Lab Number : 06201053 Unique Number : 11063176 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0123157

Received : 05 Jun 2024 **Tested** : 06 Jun 2024

Diagnosed

: 06 Jun 2024 - Wes Davis

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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