

# **OIL ANALYSIS REPORT**

Sample Rating Trend

Declara Mayford

NORMAL



Machine Id
524045
Component

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.

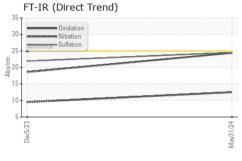
### **Fluid Condition**

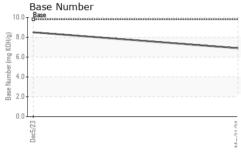
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

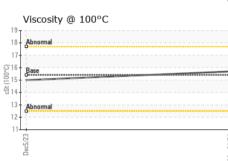
GAL)			Dec2023	May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0114762	GFL0090382	
Sample Date		Client Info		31 May 2024	05 Dec 2023	
Machine Age	hrs	Client Info		41538	40768	
Oil Age	hrs	Client Info		770	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>100	41	15	
Chromium	ppm	ASTM D5185m	>20	4	2	
Nickel	ppm	ASTM D5185m	>4	0	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	5	1	
Lead	ppm	ASTM D5185m	>40	<1	2	
Copper	ppm	ASTM D5185m	>330	2	3	
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	5	6	
Barium	ppm	ASTM D5185m	0	<1	0	
Molybdenum	ppm	ASTM D5185m	60	57	59	
Manganese	ppm	ASTM D5185m	0	1	<1	
Magnesium	ppm	ASTM D5185m	1010	901	973	
Calcium	ppm	ASTM D5185m	1070	1030	1096	
Phosphorus	ppm	ASTM D5185m	1150	1041	1025	
Zinc	ppm	ASTM D5185m	1270	1207	1258	
Sulfur	ppm	ASTM D5185m	2060	3320	2802	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	3	
Sodium	ppm	ASTM D5185m		3	1	
Potassium	ppm	ASTM D5185m	>20	11	<1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	1	
Nitration	Abs/cm	*ASTM D7624	>20	12.5	9.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	21.9	
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.4	18.6	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.9	8.5	

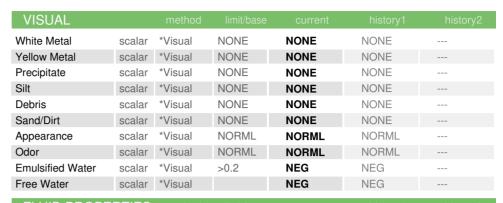


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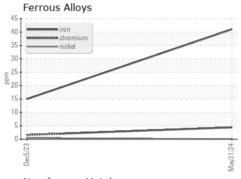


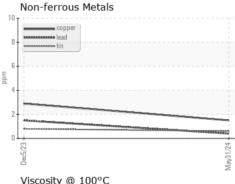


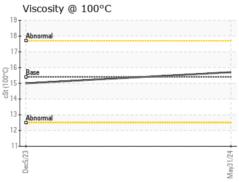


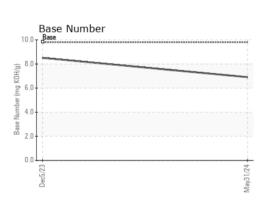
FLUID PROPE	ERITES	method	limit/base		history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	15.7	15.0	

### **GRAPHS**













Certificate 12367

Laboratory Sample No. Lab Number : 06201194 Unique Number : 11063317 Test Package : FLEET

: GFL0114762

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Jun 2024 **Tested** 

: 07 Jun 2024 Diagnosed : 07 Jun 2024 - Wes Davis

GFL Environmental - 963 - Peoria HC Disposal

1113 N. Swords Ave. West Peoria, IL US 61604

Contact: Corey Dozard cdozard@gflenv.com T:

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - 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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