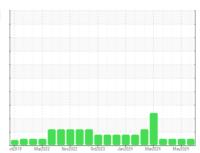


# **OIL ANALYSIS REPORT**

## Sample Rating Trend









Machine Id **427077-402331** 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

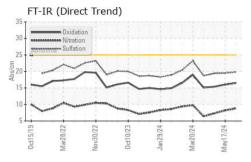
## **Fluid Condition**

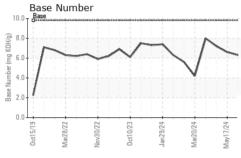
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

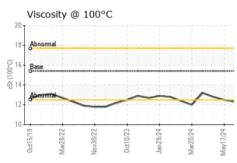
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0117920	GFL0117931	GFL0117955	
Sample Date		Client Info		30 May 2024	17 May 2024	30 Apr 2024	
Machine Age	hrs	Client Info		19242	19190	19075	
Oil Age	hrs	Client Info		600	0	0	
Oil Changed		Client Info		Changed	Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATIO	N	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 METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>120	5	7	5	
	ppm	ASTM D5185m	>20	0	<1	<1	
	ppm	ASTM D5185m	>5	0	<1	<1	
'	ppm	ASTM D5185m	>2	3	4	4	
	ppm	ASTM D5185m	>2	0	<1	<1	
	ppm	ASTM D5185m	>20	2	4	2	
	ppm	ASTM D5185m	>40	0	<1	<1	
	ppm	ASTM D5185m	>330	<1	4	1	
	ppm	ASTM D5185m	>15	<1	<1	<1	
	ppm	ASTM D5185m	710	0	<1	<1	
	ppm	ASTM D5185m		0	0	<1	
	ррпп		li.ee:t/le = = =				
ADDITIVES		method	limit/base	current	history1	history2	
·	ppm	ASTM D5185m	0	4	6	4	
	ppm		0	0	0	0	
	ppm	ASTM D5185m	60	54	57	56	
	ppm	ASTM D5185m	0	<1	0	<1	
	ppm	ASTM D5185m	1010	885	870	863	
	ppm	ASTM D5185m	1070	1021	1065	1084	
	ppm	ASTM D5185m	1150	994	1022	1056	
	ppm	ASTM D5185m	1270	1184	1168	1202	
Sulfur	ppm	ASTM D5185m	2060	3171	3047	3215	
CONTAMINANT	S	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	7	4	
Sodium	ppm	ASTM D5185m		3	3	2	
Potassium	ppm	ASTM D5185m	>20	<1	4	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.2	0.2	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	8.8	8.2	7.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	19.5	19.4	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation /	Abs/.1mm	*ASTM D7414	>25	16.5	16.0	15.4	
	mg KOH/g	ASTM D2896		6.3	6.6	7.2	
	3						



## **OIL ANALYSIS REPORT**



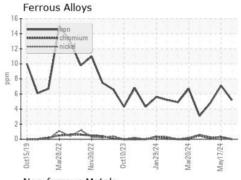


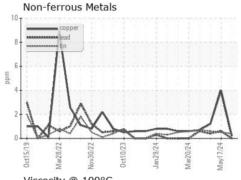


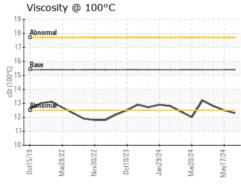
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

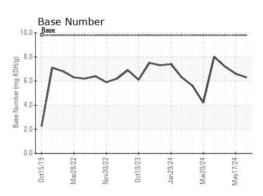
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.3	12.5	12.8

## **GRAPHS**













Certificate 12367

Laboratory Sample No. Lab Number : 06196429

: GFL0117920 Unique Number : 11058552 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 May 2024 **Tested** : 03 Jun 2024

Diagnosed : 03 Jun 2024 - Wes Davis

GFL Environmental - 891 - Oklahoma City Hauling

1001 South Rockwell Oklahoma City, OK US 73128

Contact: Andy Smith andrew.smith@gflenv.com T: (405)306-1651

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)