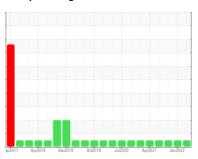


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id 10780 Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (11 GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

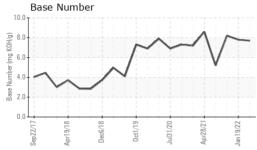
#### **Fluid Condition**

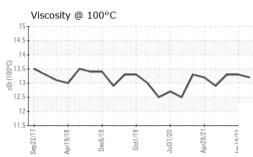
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL) (52,217 April 10 Oct. 2019 Juli 202 April 221 Jan 2022						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084251	GFL0037977	GFL0030023
Sample Date		Client Info		19 May 2023	19 Jan 2022	30 Aug 2021
Machine Age	hrs	Client Info		12115	10009	9738
Oil Age	hrs	Client Info		12115	537	266
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method		<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		20	31	16
Chromium	ppm	ASTM D5185m		<1	2	1
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m		0	5	6
Lead	ppm	ASTM D5185m		2	<1	<1
Copper	ppm	ASTM D5185m		2	8	2
Tin	ppm	ASTM D5185m		<1	<1	<1
Antimony	ppm	ASTM D5185m			0	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		11	9	21
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		65	59	63
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		941	842	920
Calcium	ppm	ASTM D5185m		1241	1050	1096
Phosphorus	ppm	ASTM D5185m		1009	906	1001
Zinc	ppm	ASTM D5185m		1285	1162	1188
Sulfur	ppm	ASTM D5185m		3344	2543	2658
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		5	7	8
Sodium	ppm	ASTM D5185m		5	4	5
Potassium	ppm	ASTM D5185m		2	1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.6	0.8	0.4
Nitration	Abs/cm	*ASTM D7624		9.6	11.2	7.9
Sulfation	Abs/.1mm	*ASTM D7415		21.7	22.8	19
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		17.5	18.1	14.2
Base Number (BN)	mg KOH/g	ASTM D2896		7.7	7.8	8.2



## **OIL ANALYSIS REPORT**

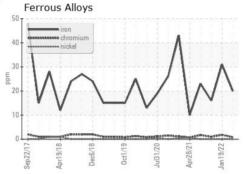


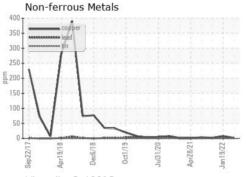


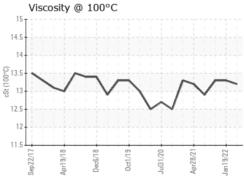
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

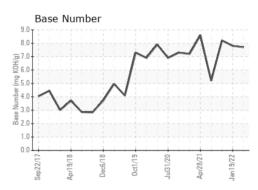
FLUID PROPE	ERTIES	method			history2
Visc @ 100°C	cSt	ASTM D445	13.2	13.3	13.3

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0084251 : 05853851 : 10483206

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 May 2023 Diagnosed : 23 May 2023

Diagnostician : Wes Davis

GFL Environmental - 031 - Greenville/Spartanburg

1635 Antioch Church Rd Piedmont, SC US 29673

Contact: TECHNICIAN ACCOUNT catherine.anastasio@wearcheck.com

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)

T:

F: