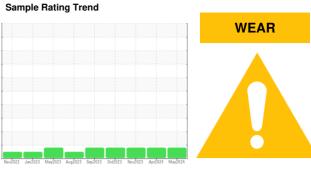


# **OIL ANALYSIS REPORT**

(FAN283) 420063

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- QTS)



## **DIAGNOSIS**

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

The aluminum level is abnormal. All other component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

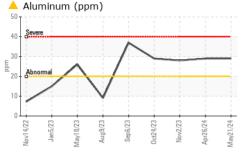
#### Fluid Condition

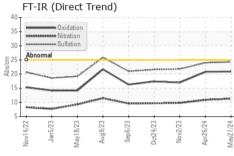
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

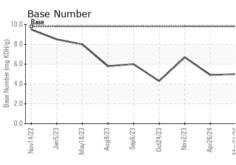
15)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0077442	GFL0111498	GFL0083068
Sample Date		Client Info		21 May 2024	26 Apr 2024	02 Nov 2023
Machine Age	hrs	Client Info		0	9610	0
Oil Age	hrs	Client Info		0	2873	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
-uel		WC Method	>5	<1.0	<1.0	<1.0
Nater		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	>100	48	48	34
Chromium	ppm	ASTM D5185m	>20	3	4	4
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Γitanium	ppm	ASTM D5185m		<1	<1	1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>^</b> 29	<u>^</u> 29	<u>^</u> 28
_ead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	7	6	6
Γin	ppm	ASTM D5185m	>15	<1	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	3	2	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	64	62	59
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	910	909	866
Calcium	ppm	ASTM D5185m	1070	1069	1068	995
Phosphorus	ppm	ASTM D5185m	1150	1004	987	900
Zinc	ppm	ASTM D5185m	1270	1217	1206	1181
Sulfur	ppm	ASTM D5185m	2060	2732	2691	2496
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	6	8
Sodium	ppm	ASTM D5185m		6	5	5
Potassium	ppm	ASTM D5185m	>20	20	18	17
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	0.9	0.9
	Abs/cm	*ASTM D7624	>20	11.3	10.9	9.8
Vitration	7 (00) 0111					
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	24.3	24.0	21.8
	Abs/.1mm		>30 limit/base	24.3 current	24.0 history1	21.8 history2
Sulfation	Abs/.1mm					

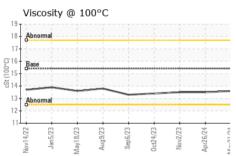


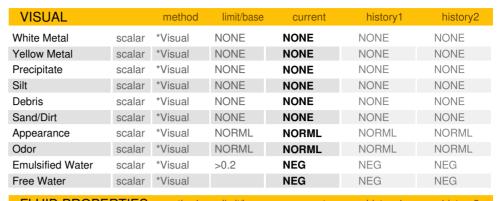
## **OIL ANALYSIS REPORT**





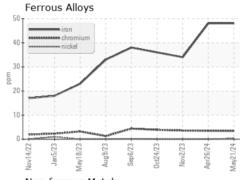


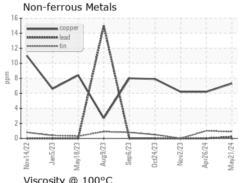


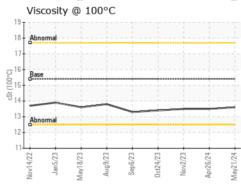


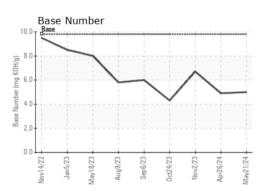
FLUID PROPERTIES		method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.5	13.5	

#### **GRAPHS**













Report Id: GFL072 [WUSCAR] 06193748 (Generated: 05/30/2024 22:10:25) Rev: 1

Laboratory Sample No.

: GFL0077442 Lab Number : 06193748

Unique Number : 11050500

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 May 2024

**Tested** : 30 May 2024 Diagnosed : 30 May 2024 - Sean Felton

GFL Environmental - 072 - Americus - Transwaste 361 McMath Mill Road Americus, GA

US 31719 Contact: RICHARD HEINZERLING richard.heinzerling@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) T: (229)924-3669