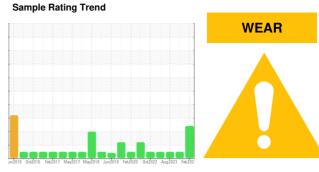


# **OIL ANALYSIS REPORT**

(YA130683) 3703

**Diesel Engine** 

## PETRO CANADA DURON SHP 15W40 (8 GAL)



### **DIAGNOSIS**

#### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

Cylinder, crank, or cam shaft wear is indicated. Valve wear is indicated.

#### Contamination

There is no indication of any contamination in the

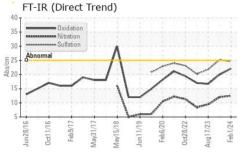
### **Fluid Condition**

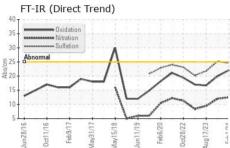
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

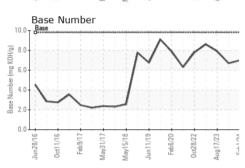
•						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098780	GFL0098786	GFL0072374
Sample Date		Client Info		01 Feb 2024	31 Oct 2023	17 Aug 2023
Machine Age	hrs	Client Info		9961	9961	0
Oil Age	hrs	Client Info		9961	9961	332
Oil Changed		Client Info		Changed	N/A	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
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	>75	<u> </u>	59	47
Chromium	ppm	ASTM D5185m	>5	<u>^</u> 9	3	2
Nickel	ppm	ASTM D5185m	>4	<u>^</u> 6	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	13	2	2
_ead	ppm	ASTM D5185m	>25	4	0	0
Copper	ppm	ASTM D5185m	>100	13	1	2
Tin	ppm	ASTM D5185m	>4	2	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	13	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	65	69	67
Manganese	ppm	ASTM D5185m	0	2	<1	<1
Magnesium	ppm	ASTM D5185m	1010	957	1028	999
Calcium	ppm	ASTM D5185m	1070	1068	1240	1267
Phosphorus	ppm	ASTM D5185m	1150	974	1135	1096
Zinc	ppm	ASTM D5185m	1270	1241	1425	1309
Sulfur	ppm	ASTM D5185m	2060	2838	3296	3668
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	6	7
Sodium	ppm	ASTM D5185m		17	15	65
Potassium	ppm	ASTM D5185m	>20	7	4	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1.4	2.4	1.2
Nitration	Abs/cm	*ASTM D7624	>20	12.5	12.0	9.5
Sulfation	Abs/.1mm	*ASTM D7415		24.6	25.2	21.8
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.1	20.0	16.7
Base Number (BN)	mg KOH/g	ASTM D2896		7.0	6.7	7.9
= 3.50 · (2.74)	9		3.0		· · ·	

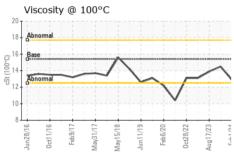


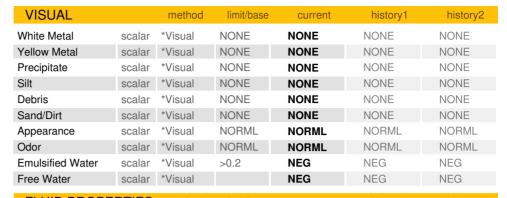
# **OIL ANALYSIS REPORT**





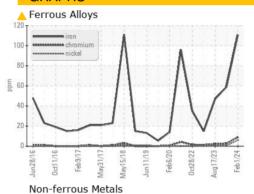


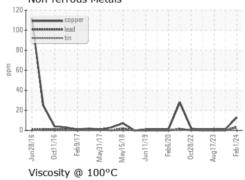


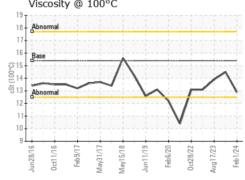


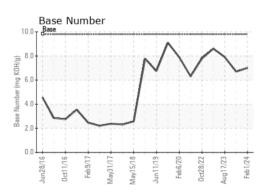
FLUID PROP	EHITES	method	iiiiii/base	current	riistory i	HIStory
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	14.5	13.9

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0098780 Lab Number : 06078149

Unique Number : 10860240 Test Package : FLEET

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

Received : 02 Feb 2024 **Tested** : 04 Feb 2024

Diagnosed : 05 Feb 2024 - Don Baldridge

2287 Leslie R Stroud Road Kinston, NC

GFL Environmental - 19DR - Deep Run/TriEast

US 28504-9477 Contact: Spencer Liggon spencer.liggon@gflenv.com

 $^st$  - 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: (800)207-6618