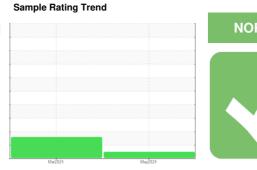


# **OIL ANALYSIS REPORT**

(YA163444) 020 421077

Diesel Engine

PETRO CANADA DURON SHP 15W40 (38 QTS)





## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

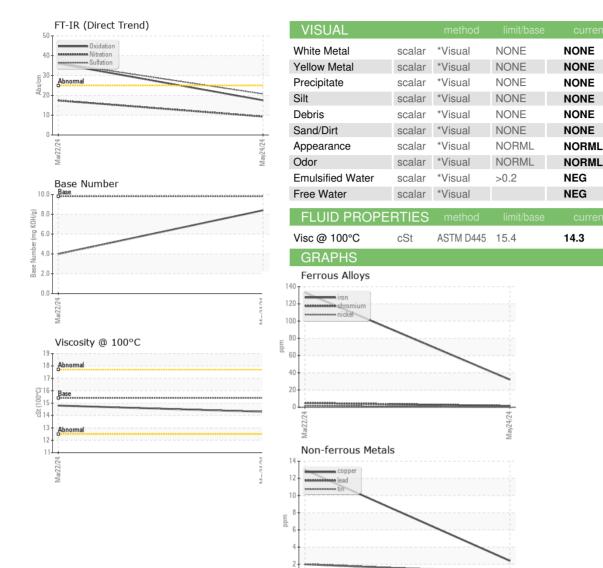
## **Fluid Condition**

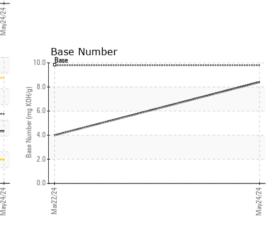
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

QIS)			Mar2024	May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117844	GFL0103784	
Sample Date		Client Info		24 May 2024	22 Mar 2024	
Machine Age	hrs	Client Info		6819	6423	
Oil Age	hrs	Client Info		615	615	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ABNORMAL	
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	32	<u> </u>	
Chromium	ppm	ASTM D5185m	>20	2	5	
Nickel	ppm	ASTM D5185m	>4	0	2	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>20	6	<u>^</u> 22	
Lead	ppm	ASTM D5185m	>40	1	2	
Copper	ppm	ASTM D5185m	>330	2	13	
Tin	ppm	ASTM D5185m	>15	<1	2	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		<1	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	12	
Barium	ppm	ASTM D5185m	0	0	<1	
Molybdenum	ppm	ASTM D5185m	60	69	98	
Manganese	ppm	ASTM D5185m	0	<1	2	
Magnesium	ppm	ASTM D5185m	1010	880	40	
Calcium	ppm	ASTM D5185m	1070	1488	2451	
Phosphorus	ppm	ASTM D5185m	1150	1194	1196	
Zinc	ppm	ASTM D5185m	1270	1427	1373	
Sulfur	ppm	ASTM D5185m	2060	4051	3774	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	23	
Sodium	ppm	ASTM D5185m		5	8	
Potassium	ppm	ASTM D5185m	>20	6	29	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	2.3	
Nitration	Abs/cm	*ASTM D7624	>20	9.3	17.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	36.4	
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	36.0	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	4.0	



# **OIL ANALYSIS REPORT**





NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

14.8





Certificate 12367

Laboratory Sample No.

: GFL0117844 Lab Number : 06195080 Unique Number : 11057203 Test Package : FLEET

₹ 14

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 May 2024 **Tested** : 31 May 2024

Diagnosed : 31 May 2024 - Wes Davis

GFL Environmental - 020 - Alamance

703 East Gilbreath St Graham, NC US 27253

Contact: JEREMY SHORES jeremy.shores@gflenv.com T: (336)668-3712

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

Viscosity @ 100°C

\* - 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)

F: (336)229-0526