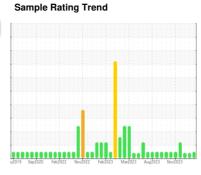


# **OIL ANALYSIS REPORT**

(**EEY356**) 10651

**Diesel Engine** 

## PETRO CANADA DURON SHP 15W40 (7 GAL)





## 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

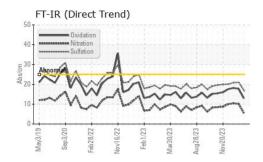
## **Fluid Condition**

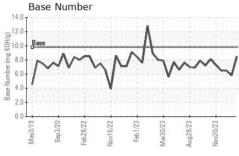
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

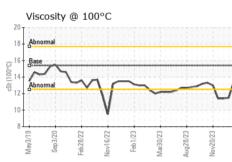
AL)		192010 00D20	ZU PBDZUZZ NOVZUZZ	repzoza marzoza Augzoza r	1042023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0115738	GFL0112325	GFL0109959	
Sample Date		Client Info		04 Apr 2024	13 Feb 2024	08 Feb 2024	
Machine Age	hrs	Client Info		21493	21222	21191	
Oil Age	hrs	Client Info		271	586	555	
Oil Changed		Client Info		Changed	Changed	Not Changd	
Sample Status				NORMAL	ATTENTION	ATTENTION	
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	
Iron	ppm	ASTM D5185m	>75	4	20	19	
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	0	
Titanium	ppm	ASTM D5185m	>2	<1	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>15	2	3	3	
Lead	ppm	ASTM D5185m	>25	<1	<1	0	
Copper	ppm	ASTM D5185m	>100	<1	1	<1	
Tin	ppm	ASTM D5185m	>4	<1	<1	0	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	11	5	12	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	60	53	56	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	839	758	801	
Calcium	ppm	ASTM D5185m	1070	1014	977	1017	
Phosphorus	ppm	ASTM D5185m	1150	917	887	949	
Zinc	ppm	ASTM D5185m	1270	1116	1069	1114	
Sulfur	ppm	ASTM D5185m	2060	2847	2559	2560	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	6	6	
Sodium	ppm	ASTM D5185m		3	11	10	
Potassium	ppm	ASTM D5185m	>20	2	1	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.2	0.5	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	5.4	10.1	10.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.0	21.0	20.8	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.9	17.7	18.2	
Base Number (BN)	mg KOH/g	ASTM D2896		8.5	5.8	6.5	
(211)				5.5			



# **OIL ANALYSIS REPORT**



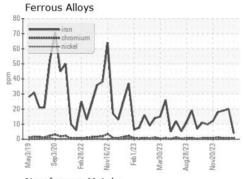


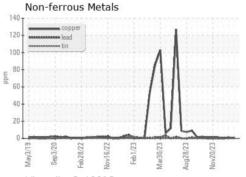


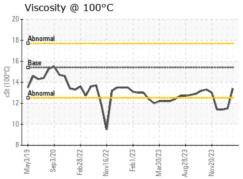
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

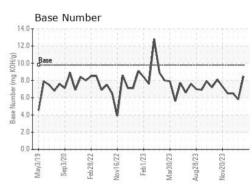
FLUID PROP	ERITES	method			HISTORY	History∠
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	11.5	11.4

## **GRAPHS**













Certificate 12367

Sample No.

Laboratory

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0115738 Lab Number : 06139513 Unique Number : 10964321 Test Package : FLEET

Received : 05 Apr 2024 **Tested** : 05 Apr 2024

Diagnosed : 05 Apr 2024 - Wes Davis

GFL Environmental - 010 - Stockbridge

1280 Rum Creek Parkway Stockbridge, GA

US 30281 Contact: JOSHUA TINKER joshuatinker@gflenv.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: