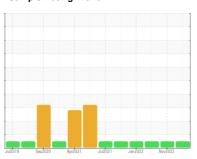


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id 10957 Component Diesel Engine

## PETRO CANADA DURON SHP 15W40 (10 GAL)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil

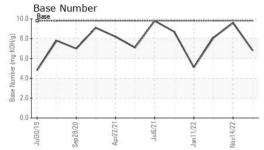
## **Fluid Condition**

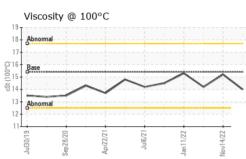
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Jul2019 Smp2020 Apr2021 Jul2021 Jan2022 Nov2022						
SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0072230	GFL0059038	GFL0049613
Sample Date		Client Info		17 Jul 2023	14 Nov 2022	19 Apr 2022
Machine Age	hrs	Client Info		5987	5987	5987
Oil Age	hrs	Client Info		13482	1880	1880
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	27	27	10
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	2	0
Aluminum	ppm	ASTM D5185m	>20	3	2	2
Lead	ppm	ASTM D5185m	>40	4	4	2
Copper	ppm	ASTM D5185m	>330	<1	<1	1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	16	9	115
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	77	63	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1045	935	538
Calcium	ppm	ASTM D5185m	1070	1358	1188	1755
Phosphorus	ppm	ASTM D5185m	1150	1216	1030	1081
Zinc	ppm	ASTM D5185m	1270	1477	1280	1321
Sulfur	ppm	ASTM D5185m	2060	3606	3259	2821
CONTAMINAN <sup>*</sup>	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	6	7
Sodium	ppm	ASTM D5185m		4	4	<1
Potassium	ppm	ASTM D5185m	>20	1	2	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	1.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	12.7	13	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.1	27.4	25.5
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.6	24.3	23.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.8	9.6	8.1
, ,						



# **OIL ANALYSIS REPORT**

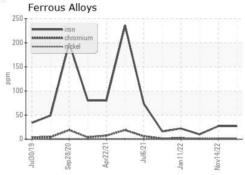


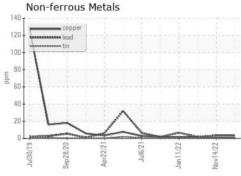


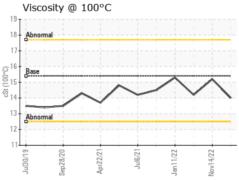
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

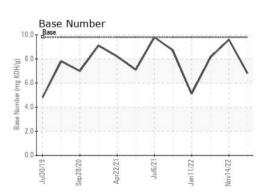
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	15.2	14.2

## **GRAPHS**













Certificate L2367

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

: GFL0072230 : 05902807 : 10564163

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jul 2023

Diagnosed : 20 Jul 2023 Diagnostician : Wes Davis

GFL Environmental - 004 - Newport - Central Coast 427 Roberts Road

Newport, NC US 28570 Contact: Marquis Williams

marquis.williams@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)

F: (252)223-6010