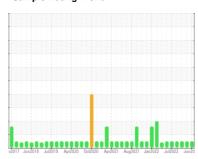


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id 3775 Component Diesel Engine

## PETRO CANADA DURON SHP 10W30 (36 QTS)

## 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.

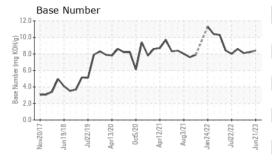
## **Fluid Condition**

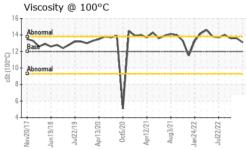
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(13)		v2017 Jun2011	Jul2019 Apr2020 Oct20	020 Apr2021 Aug2021 Jan2022 J	ul2022 Jun20	
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0071545	GFL0053177	GFL0061706
Sample Date		Client Info		21 Jun 2023	13 Mar 2023	06 Jan 2023
Machine Age	hrs	Client Info		8193	8193	8193
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history 1	history 2
ron	ppm	ASTM D5185m	>165	14	10	12
Chromium	ppm	ASTM D5185m	>5	2	<1	1
Nickel	ppm	ASTM D5185m	>4	1	0	0
Fitanium	ppm	ASTM D5185m		2	0	<1
Silver	ppm	ASTM D5185m	>2	1	0	<1
Aluminum	ppm	ASTM D5185m	>20	5	1	2
_ead	ppm	ASTM D5185m	>150	7	<1	3
Copper	ppm	ASTM D5185m	>90	2	<1	1
Fin	ppm	ASTM D5185m	>5	2	<1	<1
/anadium	ppm	ASTM D5185m		1	0	<1
Cadmium	ppm	ASTM D5185m		2	0	<1
ADDITIVES	рріп	method	limit/base			
				current	history 1	history 2
Boron	ppm	ASTM D5185m	2	2	10	12
Barium	ppm	ASTM D5185m	0	18	0	0
Molybdenum	ppm	ASTM D5185m	50	49	59	69
Manganese	ppm	ASTM D5185m	0	2	<1	<1
Magnesium	ppm	ASTM D5185m	950	734	832	956
Calcium	ppm	ASTM D5185m	1050	812	1115	1236
Phosphorus	ppm	ASTM D5185m	995	777	954	1067
Zinc	ppm	ASTM D5185m	1180	959	1106	1316
Sulfur	ppm	ASTM D5185m	2600	2651	3431	3752
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>35	7	5	8
Sodium	ppm	ASTM D5185m		5	4	4
Potassium	ppm	ASTM D5185m	>20	6	0	0
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>7.5	0.5	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.0	8.7	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	20.7	20.7
FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3	16.4	16.8
Base Number (BN)	mg KOH/g	ASTM D2896		8.4	8.2	8.1



## **OIL ANALYSIS REPORT**

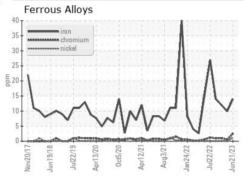


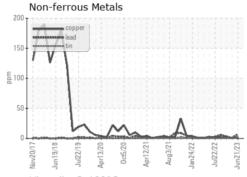


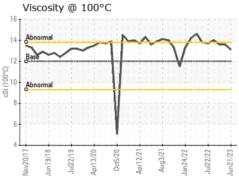
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

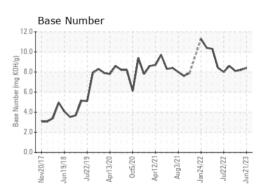
FLUID PROPE	ERTIES	method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	12.00	13.1	13.6	13.6

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number

: GFL0071545 : 05888805 Unique Number : 10539288 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jul 2023 Diagnosed : 05 Jul 2023

Diagnostician : Don Baldridge

1236 Elon Place High Point, NC US 27263

Contact: JORGE COSTA jorge.costa@gflenv.com T: (336)668-3712

\* - 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)