

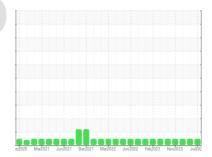
# **OIL ANALYSIS REPORT**



(YA145276) 810031 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (50 QTS)



Sample Rating Trend



## 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

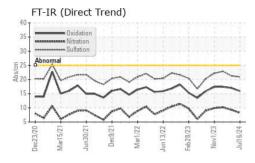
## **Fluid Condition**

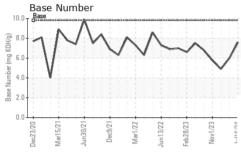
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

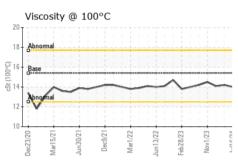
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0125792	GFL0079631	GFL0088514
Sample Date		Client Info		16 Jul 2024	05 Jun 2024	19 Feb 2024
Machine Age	hrs	Client Info		2256	2256	2256
Oil Age	hrs	Client Info		147	468	702
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	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	>120	13	29	24
Chromium	ppm	ASTM D5185m	>20	<1	1	1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	4	7	5
Lead	ppm	ASTM D5185m	>40	0	2	<1
Copper	ppm	ASTM D5185m	>330	7	3	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	0	1
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	56	64	62
Manganese	ppm	ASTM D5185m	0	2	<1	<1
Magnesium	ppm	ASTM D5185m	1010	888	959	961
Calcium	ppm	ASTM D5185m	1070	1007	1123	1072
Phosphorus	ppm	ASTM D5185m	1150	963	997	1008
Zinc	ppm	ASTM D5185m	1270	1220	1283	1272
Sulfur	ppm	ASTM D5185m	2060	3218	2925	2481
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	19	14
Sodium	ppm	ASTM D5185m		7	2	6
Potassium	ppm	ASTM D5185m	>20	5	5	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.6	0.7	1.1
Nitration	Abs/cm	*ASTM D7624	>20	8.2	9.3	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	21.3	22.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	17.0	17.4
Oxidation	7100/1111111	//OTIVI D/TTT	120	10.5	17.0	17.7



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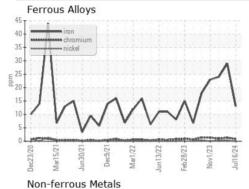


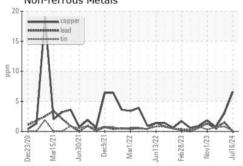


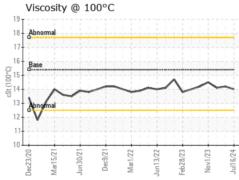
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

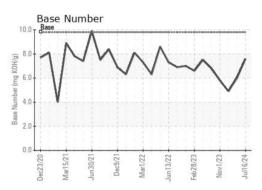
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.2	14.1

## **GRAPHS**













Certificate 12367

Laboratory Sample No. Unique Number : 11127610

Test Package : FLEET

: GFL0125792 Lab Number : 06238776

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jul 2024 **Tested** : 18 Jul 2024

Diagnosed

: 18 Jul 2024 - Wes Davis

GFL Environmental - 017 - Durham

148 Stone Park Court Durham, NC US 27703

Contact: William Russel william.russell@gflenv.com

F: (919)598-1852

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)

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