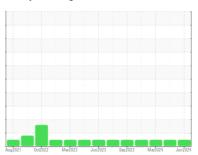


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **826035-586** 

Diesel Engine

PETRO CANADA DURON SHP 15W40 (22 QTS

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Sampled oil )

### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

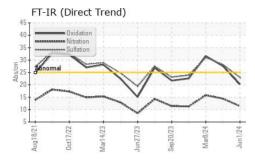
#### **Fluid Condition**

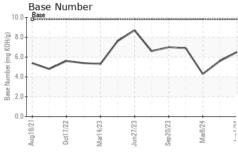
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

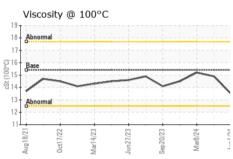
QTS)		Aug2021	Oct2022 Mar2023	Jun2023 Sep2023 Mar2024	Jun2024	
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info		GFL0120876 01 Jun 2024	GFL0110350 16 Mar 2024	GFL0110309 08 Mar 2024
Machine Age	hrs	Client Info		10804 400	10804 590	10804 317
Oil Age Oil Changed	1115	Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>80	26	66	78
Chromium	ppm	ASTM D5185m	>5	<1	3	2
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	4	5	5
Lead	ppm	ASTM D5185m	>30	2	9	9
Copper	ppm	ASTM D5185m		2	3	2
Tin	ppm	ASTM D5185m	>5	<1	1	<1
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	6	8	0
Barium	ppm	ASTM D5185m	0	1	0	0
Molybdenum	ppm	ASTM D5185m	60	68	74	73
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	908	1112	1116
Calcium	ppm	ASTM D5185m	1070	1179	1363	1365
Phosphorus	ppm	ASTM D5185m	1150	1015	1358	1225
Zinc	ppm	ASTM D5185m	1270	1271	1512	1527
Sulfur	ppm	ASTM D5185m	2060	3150	3504	3385
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4	8	7
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	>20	3	3	<1
INFRA-RED	1-1-	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.9	1.1
Nitration	Abs/cm	*ASTM D7624	>20	11.4	14.4	15.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	28.2	31.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	27.6	31.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.5	5.6	4.3
, ,						



## **OIL ANALYSIS REPORT**



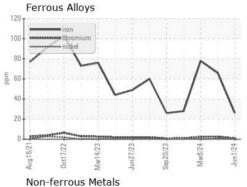


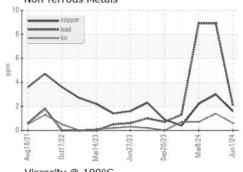


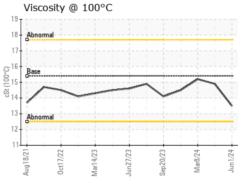
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

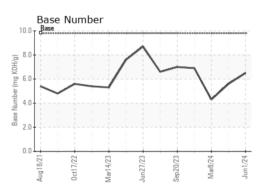
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	14.9	15.2

#### **GRAPHS**













Certificate 12367

Laboratory Sample No.

Lab Number : 06201070

Test Package : FLEET

: GFL0120876 Unique Number : 11063193

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Jun 2024 **Tested** 

: 06 Jun 2024 Diagnosed : 09 Jun 2024 - Don Baldridge

GFL Environmental - 622 - Traverse City Hauling

160 Hughes Dr Traverse City, MI US 49686

Contact: GARY BREWER

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)

Submitted By: TECHNICIAN ACCOUNT

T:

F: