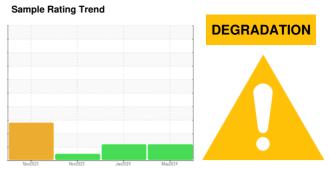


OIL ANALYSIS REPORT

ODT





Area
GFL035
Machine to
834019
Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (38 QTS)

DIAGNOSIS

Recommendation

The oil is near the end of it's useful service life, recommend schedule an oil change. 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.

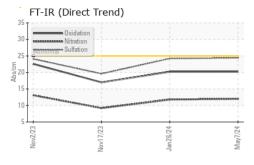
Fluid Condition

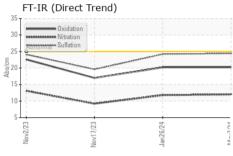
The BN level is low.

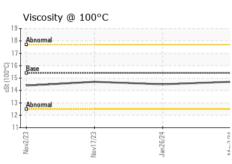
SAMPLE INFORMATION method limit/base current history	1 history2
Sample Number Client Info GFL0116479 GFL01023	40 GFL0085160
Sample Date Client Info 07 May 2024 26 Jan 202	4 17 Nov 2023
Machine Age hrs Client Info 0	0
Oil Age hrs Client Info 600 600	300
Oil Changed Client Info Not Change Not Change	d Not Changd
Sample Status ABNORMAL ABNORMA	L NORMAL
CONTAMINATION method limit/base current history	1 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 METALS method limit/base current history	1 history2
Iron ppm ASTM D5185m >120 16 21	16
Chromium ppm ASTM D5185m >20 <1	<1
Nickel ppm ASTM D5185m >15 <1 <1	<1
Titanium ppm ASTM D5185m >2 <1	<1
Silver ppm ASTM D5185m >3 0 0	0
Aluminum ppm ASTM D5185m >20 3 4	2
Lead ppm ASTM D5185m >40 2 2	<1
Copper ppm ASTM D5185m >330 2 3	3
Tin ppm ASTM D5185m >15 2 1	<1
Vanadium ppm ASTM D5185m <1 0	0
Cadmium ppm ASTM D5185m <1 0	0
ADDITIVES method limit/base current history	1 history2
Boron ppm ASTM D5185m 0 2 4	20
Barium ppm ASTM D5185m 0 2 <1	0
Molybdenum ppm ASTM D5185m 60 58 53	52
Manganese ppm ASTM D5185m 0 <1 3	2
Manganese ppm ASTM D5185m 0 <1	2 568
Manganese ppm ASTM D5185m 0 <1	2 568 1517
Manganese ppm ASTM D5185m 0 <1	2 568 1517 742
Manganese ppm ASTM D5185m 0 <1	2 568 1517 742 933
Manganese ppm ASTM D5185m 0 <1	2 568 1517 742 933 2465
Manganese ppm ASTM D5185m 0 <1	2 568 1517 742 933 2465
Manganese ppm ASTM D5185m 0 <1	2 568 1517 742 933 2465 1 history2
Manganese ppm ASTM D5185m 0 <1	2 568 1517 742 933 2465 1 history2
Manganese ppm ASTM D5185m 0 <1	2 568 1517 742 933 2465 1 history2
Manganese ppm ASTM D5185m 0 <1	2 568 1517 742 933 2465 1 history2 6 4 3
Manganese ppm ASTM D5185m 0 <1	2 568 1517 742 933 2465 1 history2 6 4 3
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Manganese ppm ASTM D5185m 0 <1	2 568 1517 742 933 2465 1 history2 6 4 3 1 history2
Manganese ppm ASTM D5185m 0 <1	2 568 1517 742 933 2465 1 history2 6 4 3 1 history2 0 9.2 19.6
Manganese ppm ASTM D5185m 0 <1	2 568 1517 742 933 2465 1 history2 6 4 3 1 history2 0 9.2 19.6



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
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

limit/base

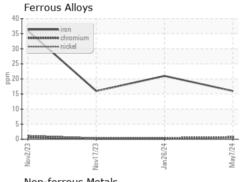
ASTM D445 15.4

current

14.5

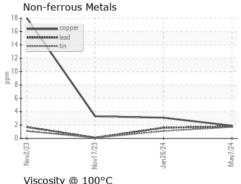
14.7

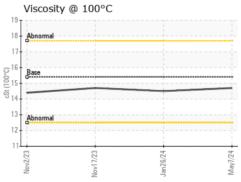
Visc @	100°C
GRA	PHS

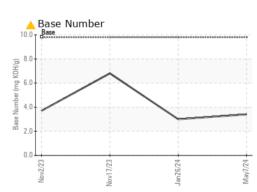


FLUID PROPERTIES method

cSt











Certificate 12367

Laboratory Sample No.

: GFL0116479

Lab Number : 06176485 Unique Number : 11022538 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 : 10 May 2024

Tested : 13 May 2024

Diagnosed : 14 May 2024 - Sean Felton

1236 Elon Place High Point, NC US 27263 Contact: JORGE COSTA

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

GFL Environmental - 035 - Greensboro

* - 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) history2

14.7