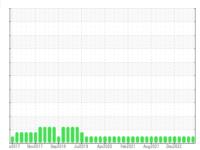


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



GFL035
Machine Id
3680
Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (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.

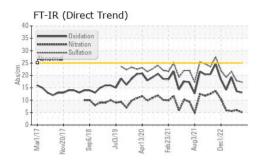
Fluid Condition

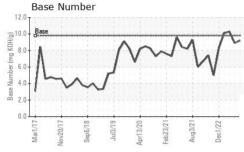
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

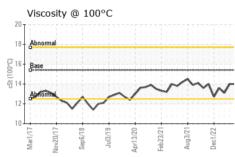
r2017 Nov2017 Smp2018 Jul2019 Apr2020 Fmb2021 Aug2021 Onr2022							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0116426	GFL0116460	GFL0102285	
Sample Date		Client Info		01 Apr 2024	22 Mar 2024	27 Nov 2023	
Machine Age	hrs	Client Info		29616	29616	29616	
Oil Age	hrs	Client Info		600	600	600	
Oil Changed		Client Info		Not Changd	Not Changd	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	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	>75	2	5	20	
Chromium	ppm	ASTM D5185m	>5	0	0	<1	
Nickel	ppm	ASTM D5185m	>4	0	<1	<1	
Titanium	ppm	ASTM D5185m	>2	0	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>15	<1	1	7	
Lead	ppm	ASTM D5185m	>25	0	0	<1	
Copper	ppm	ASTM D5185m	>100	0	0	2	
Tin	ppm	ASTM D5185m	>4	0	0	0	
Vanadium	ppm	ASTM D5185m		<1	<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0	46	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	60	60	43	
Manganese	ppm	ASTM D5185m	0	0	0	<1	
Magnesium	ppm	ASTM D5185m	1010	978	977	577	
Calcium	ppm	ASTM D5185m	1070	1153	1150	1610	
Phosphorus	ppm	ASTM D5185m	1150	1102	1088	839	
Zinc	ppm	ASTM D5185m	1270	1343	1335	978	
Sulfur	ppm	ASTM D5185m	2060	4025	3958	2540	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	2	3	10	
Sodium	ppm	ASTM D5185m		1	1	4	
Potassium	ppm	ASTM D5185m	>20	<1	1	6	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.1	0.2	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	5.1	6.0	5.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	17.8	21.6	
FLUID DEGRA	OATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	13.6	19.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.2	8.9	10.3	



OIL ANALYSIS REPORT



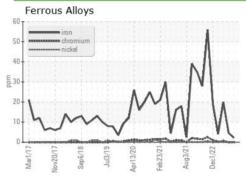


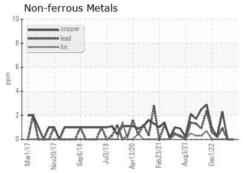


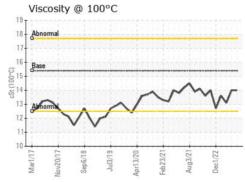
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

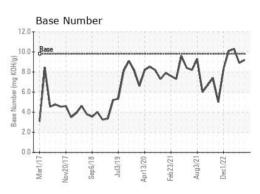
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.0	13.1

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number : 06137223

Test Package : FLEET

: GFL0116426 Unique Number: 10956688

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Apr 2024 **Tested**

: 04 Apr 2024 Diagnosed : 04 Apr 2024 - Wes Davis

GFL Environmental - 035 - Greensboro

1236 Elon Place High Point, NC US 27263

Contact: JORGE COSTA

jorge.costa@gflenv.com

T: (336)668-3712

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: