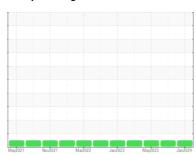


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



428055-402384

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- LTR)

DIAGNOSIS

Recommendation

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

Top Up Amount: 2 LTR)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

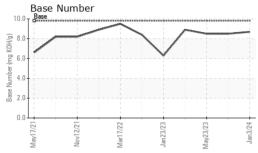
Fluid Condition

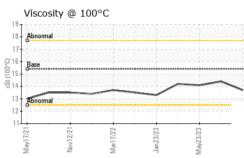
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

LTR)		May2021	Nov2021 Mar2022	Jan2023 May2023	Jan2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092589	GFL0092575	GFL0081536
Sample Date		Client Info		03 Jan 2024	13 Sep 2023	23 May 2023
Machine Age	hrs	Client Info		13902	13359	12675
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Oil Added	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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	>110	11	3	10
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	1	<1
Lead	ppm	ASTM D5185m	>45	3	<1	1
Copper	ppm	ASTM D5185m	>85	<1	<1	1
Tin	ppm	ASTM D5185m	>4	<1	1	0
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	4	3	8
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	61	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	901	975	931
Calcium	ppm	ASTM D5185m	1070	1128	1209	1127
Phosphorus	ppm	ASTM D5185m	1150	1041	1081	1043
Zinc	ppm	ASTM D5185m	1270	1296	1295	1285
Sulfur	ppm	ASTM D5185m	2060	3021	3841	4189
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4	5	4
Sodium	ppm	ASTM D5185m	00	4	2	3
Potassium	ppm	ASTM D5185m	>20	8	4	1
INFRA-RED	0/	method	limit/base	current	history1	history2
Soot %	% A b a /a ra	*ASTM D7844	>3	0.5	0.1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.6	5.4	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	17.8	19.6
FLUID DEGRAI		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	13.4	15.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	8.5	8.5



OIL ANALYSIS REPORT

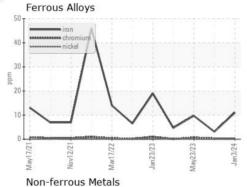


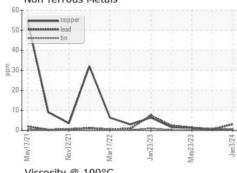


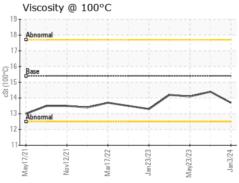
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

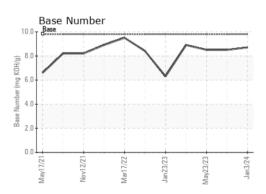
FLUID PROP	ERITES	method	ilmit/base		nistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	14.4	14.1

GRAPHS













Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0092589 : 06051383 : 10817332

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 04 Jan 2024 Diagnosed : 05 Jan 2024 Diagnostician : Don Baldridge

GFL Environmental - 885 - Orlando

1263 W Landstreet Rd Orlando, FL US 32824

Contact: Brian Bou Diaz bboudiaz@gflenv.com T:

* - 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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