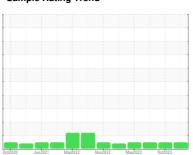


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



727012-518

Component **Diesel Engine**

Fluid

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

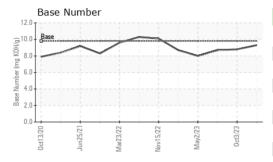
Fluid Condition

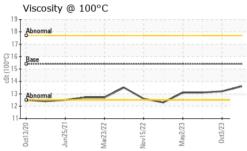
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

LIN)		0ct2020	Jun2021 Mar2022	Nov2022 May2023 0	ct2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0077784	GFL0077814	GFL0065070
Sample Date		Client Info		30 Oct 2023	03 Oct 2023	19 Sep 2023
Machine Age	mls	Client Info		20786	20786	20786
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	0	2	1
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>4	0	1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		<1	7	<1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m		0	<1	0
Tin		ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m	>10	0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
	ppm					-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	12	7	5
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	56	62	61
Manganese	ppm	ASTM D5185m	0	0	<1	0
Magnesium	ppm	ASTM D5185m	1010	874	930	1002
Calcium	ppm	ASTM D5185m	1070	982	1020	1134
Phosphorus	ppm	ASTM D5185m	1150	1006	1031	1092
Zinc	ppm	ASTM D5185m	1270	1180	1210	1326
Sulfur	ppm	ASTM D5185m	2060	3018	3396	4184
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	2
Sodium	ppm	ASTM D5185m		0	2	4
Potassium	ppm	ASTM D5185m	>20	<1	7	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	4.4	5.1	5.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.0	16.9	17.0
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.8	13.0	13.0
Base Number (BN)	mg KOH/g			9.3	8.8	8.7
Dage Hamber (DIN)	mg Norry	, 10 THI D2000	0.0	0.0	0.0	0.7



OIL ANALYSIS REPORT

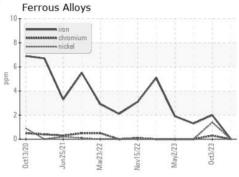


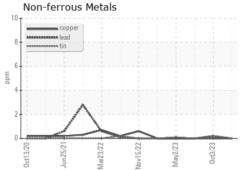


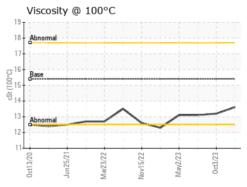
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

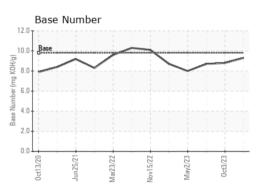
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.2	13.1

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10725585 Test Package : FLEET

: 05997225

: GFL0077784

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 02 Nov 2023 Diagnosed : 03 Nov 2023

Diagnostician : Wes Davis

GFL Environmental - 650 - West Point Hauling

7825 Parham Landing Road West Point, VA US 23181

Contact: Jason Smith

jasonsmith@gflenv.com

T: F:

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)