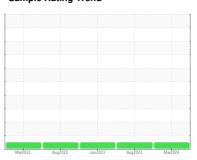


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **425021**

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

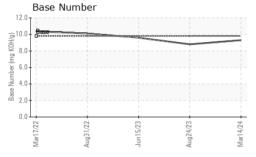
Fluid Condition

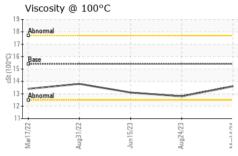
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Mar2022	Aug2022	Jun2023 Aug2023	Mar2024	
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116266	GFL0088265	GFL0077509
Sample Date		Client Info		14 Mar 2024	24 Aug 2023	15 Jun 2023
Machine Age	mls	Client Info		223936	9749	9703
Oil Age	mls	Client Info		0	327	148
Oil Changed		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	>100	<1	1	2
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>50	0	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>50	<1	0	<1
Lead	ppm	ASTM D5185m	>40	0	0	2
Copper	ppm	ASTM D5185m	>330	<1	0	<1
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	17	12	11
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	56	55	60
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	1010	887	938	956
Calcium	ppm	ASTM D5185m	1070	1106	1190	1196
Phosphorus	ppm	ASTM D5185m	1150	1020	1015	1072
Zinc	ppm	ASTM D5185m	1270	1212	1277	1326
Sulfur	ppm	ASTM D5185m	2060	4099	3951	3999
CONTAMINAN		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>25	2	2	3
Sodium	ppm	ASTM D5185m	00	<1	0	2
Potassium	ppm	ASTM D5185m	>20	1	2	2
INFRA-RED		method	limit/base		history1	history2
Soot %	%	*ASTM D7844	>3	0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	4.6	4.9	5.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	16.6	17.3
FLUID DEGRA			limit/base		history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.5	12.1	12.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.3	8.8	9.6



OIL ANALYSIS REPORT

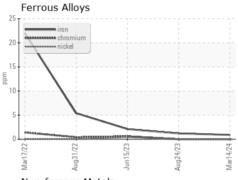


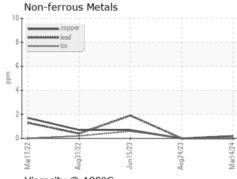


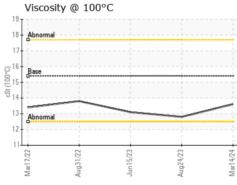
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

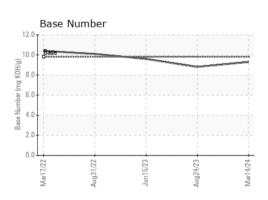
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	12.8	13.1

GRAPHS











Laboratory Sample No.

Lab Number : 06122966 Unique Number : 10937117 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0116266 Received : 19 Mar 2024

Tested : 20 Mar 2024 Diagnosed

: 21 Mar 2024 - Don Baldridge

GFL Environmental - 625 - Harrison Hauling 4102 Industrial Pkwy

Harrison, MI US 48625

Contact: Glenda Standen

gstanden@gflenv.com T:

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)

Report Id: GFL625 [WUSCAR] 06122966 (Generated: 03/21/2024 16:41:45) Rev: 1

Submitted By: also GFL632 and GFL638 - Glenda Standen

F: