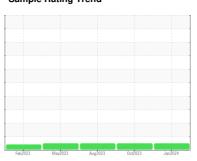


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 713021

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

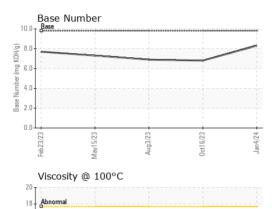
Fluid Condition

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

GAL)		Feb 2023	May2023	Aug2023 Oct2023	Jan2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094874	GFL0088296	GFL0077539
Sample Date		Client Info		04 Jan 2024	16 Oct 2023	03 Aug 2023
Machine Age	hrs	Client Info		2841	2296	1739
Oil Age	hrs	Client Info		621	557	611
Oil Changed		Client Info		Changed	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	>100	11	14	17
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	2	1	2
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	1	1	1
Lead	ppm	ASTM D5185m	>40	<1	<1	2
Copper	ppm	ASTM D5185m	>330	6	41	225
Tin	ppm	ASTM D5185m	>15	1	1	1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	<1	2
Barium	ppm	ASTM D5185m	0	0	3	0
Molybdenum	ppm	ASTM D5185m	60	61	59	65
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	953	854	985
Calcium	ppm	ASTM D5185m	1070	1079	1017	1179
Phosphorus	ppm	ASTM D5185m	1150	1127	891	993
Zinc	ppm	ASTM D5185m	1270	1323	1085	1228
Sulfur	ppm	ASTM D5185m	2060	3111	2302	2987
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	5
Sodium	ppm	ASTM D5185m		3	4	4
Potassium	ppm	ASTM D5185m	>20	3	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	7.3	7.7	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	18.9	18.6
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	14.5	14.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	6.8	6.9



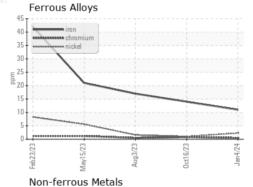
OIL ANALYSIS REPORT

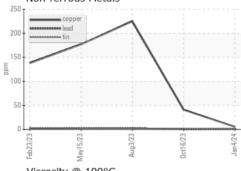


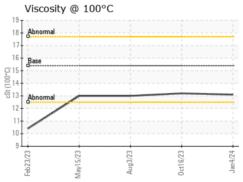
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

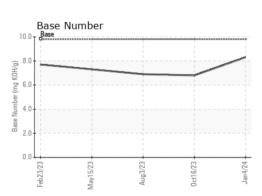
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.2	13.0

GRAPHS













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

: GFL0094874 : 06054623 : 10820572

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 08 Jan 2024

Diagnosed : 10 Jan 2024 Diagnostician : Sean Felton

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)

F: