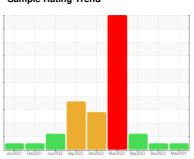


OIL ANALYSIS REPORT

Sample Rating Trend







7810M Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

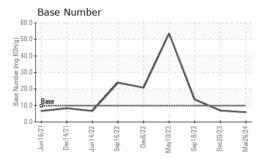
Fluid Condition

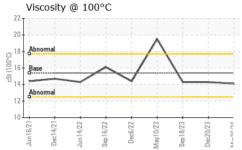
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Jun2021 De	:2021 Jun2022 Sep2022	Dec2022 May2023 Sep2023 Dec20	23 Mar2024	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116866	GFL0107101	GFL0091473
Sample Date		Client Info		26 Mar 2024	20 Dec 2023	18 Sep 2023
Machine Age	hrs	Client Info		13169	14795	13161
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Not Changd	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATION	NC	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 METALS	<u> </u>	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	13	4	20
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	2	1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	0	28
Tin	ppm	ASTM D5185m	>15	2	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	29
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	57	114
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	986	897	892
Calcium	ppm	ASTM D5185m	1070	1106	1030	1006
Phosphorus	ppm	ASTM D5185m	1150	998	962	1036
Zinc	ppm	ASTM D5185m	1270	1261	1171	1221
Sulfur	ppm	ASTM D5185m	2060	3220	3332	3792
CONTAMINANT	ſS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	20
Sodium	ppm	ASTM D5185m		5	0	<u></u> 1094
Potassium	ppm	ASTM D5185m	>20	<1	2	10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.8	4.8	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	16.9	17.6
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	12.5	12.8
	mg KOH/g	ASTM D2896	9.8	5.9	6.9	13.6



OIL ANALYSIS REPORT

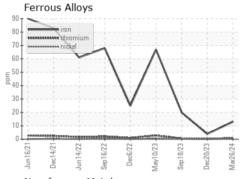


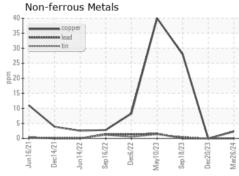


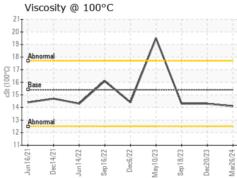
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

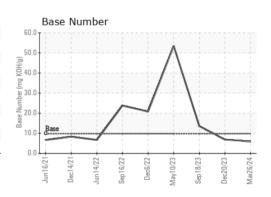
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.3	14.3

GRAPHS













Laboratory Sample No.

Test Package : FLEET

: GFL0116866 Lab Number : 06131318 Unique Number: 10950783

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

: 28 Mar 2024 Diagnosed : 28 Mar 2024 - Wes Davis GFL Environmental - 465 - Pontiac

888 Baldwin Pontiac, MI US 48340 Contact: Ricky Matthews

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. T: (586)825-9514

: 27 Mar 2024

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

rickymathews@gflenv.com