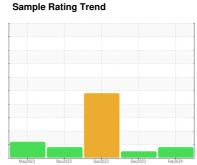


OIL ANALYSIS REPORT



WEAR



786M Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- G

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

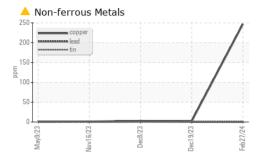
Fluid Condition

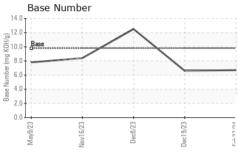
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

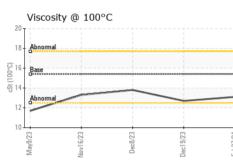
GAL)		May2023	Nov2023	Dec2023 Dec2023	Feb 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Oil Age	hrs hrs	Client Info Client Info Client Info Client Info		GFL0108908 27 Feb 2024 19411 0	GFL0105740 19 Dec 2023 18804 0	GFL0105579 08 Dec 2023 18724 18724
Oil Changed Sample Status		Client Info		Changed ABNORMAL	Changed NORMAL	Changed ABNORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel Water Glycol		WC Method WC Method	>5 >0.2	<1.0 NEG NEG	<1.0 NEG NEG	<1.0 NEG NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron Chromium Nickel	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >4	18 1 4	54 2 <1	47 2 <1
Titanium Silver Aluminum Lead	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>3 >20 >40	<1 1 2 0	0 0 6 0	0 0 11 1
Copper Tin Vanadium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		▲ 247 <1 <1	2 <1 <1	3 0 0
Cadmium ADDITIVES	ppm	ASTM D5185m method	limit/base	0	<1	0 history O
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0	11 0 66	history1 0 0 57	history2 52 0 120
Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		1 906 1009	<1 892 1016	1 941 1058
Phosphorus Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1150 1270 2060	991 1196 2713	950 1181 2908	1065 1317 3301
CONTAMINAN [*]	TS	method	limit/base	current	history1	history2
Silicon Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	9 3 2	5 7 8	▲ 39 ▲ 1730 ▲ 22
INFRA-RED		method	limit/base	current	history1	history2
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415		0.3 8.2 20.1	1.1 11.6 21.5	1 15.0 22.5
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.8	16.3 6.7	18.4 6.6	17.7 12.5



OIL ANALYSIS REPORT



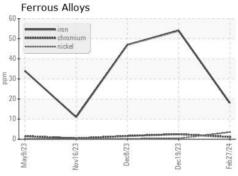


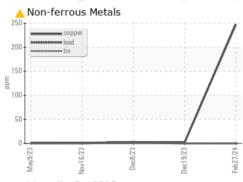


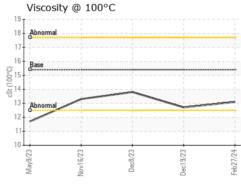
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

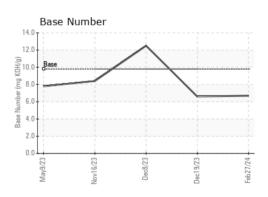
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	12.7	13.8

GRAPHS













Laboratory Sample No.

: GFL0108908 Lab Number : 06105713 Unique Number : 10903943 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Mar 2024 **Tested** : 01 Mar 2024

Diagnosed : 04 Mar 2024 - Sean Felton

GFL Environmental - 415 - Michigan East 6200 Elmridge

Sterling Heights, MI US 48313

Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

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)