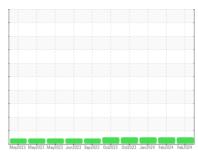


OIL ANALYSIS REPORT

Sample Rating Trend







713027

Component **Diesel Engine**

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

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.

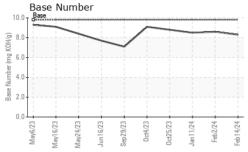
Fluid Condition

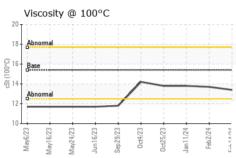
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

May do 23 Sep do 24 Sep do						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age	hrs	Client Info Client Info Client Info		GFL0105258 14 Feb 2024 959	GFL0105181 02 Feb 2024 827	GFL0105174 11 Jan 2024 699
Oil Age Oil Changed Sample Status	hrs	Client Info Client Info		300 Not Changd NORMAL	Not Changd NORMAL	Not Changd NORMAL
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2
Iron Chromium	ppm	ASTM D5185m ASTM D5185m	>100	14 <1	12 <1	7 0
Nickel Titanium Silver	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>4	<1 0 0	0 0 0	0 0 <1
Aluminum Lead	ppm ppm	ASTM D5185m ASTM D5185m	>20 >40	3 <1	2 <1	2 <1
Copper Tin Vanadium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>330 >15	2 <1 0	2 <1 <1	<1 <1 0
Cadmium ADDITIVES	ppm	ASTM D5185m	limit/base	0 current	0 history1	0 history2
Boron	ppm	ASTM D5185m	0	4	2	4
Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m	0	0 55	0 56	0 57
Manganese Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070	1 863 967	<1 918 1032	<1 923 992
Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m	1150 1270	935 1177	994 1207	1074 1231
Sulfur	ppm	ASTM D5185m	2060	2833	3034	3092
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25	4 4 4	3 4 4	3 4 8
INFRA-RED	PP.''	method	limit/base	current	history1	history2
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>3 >20 >30	0.4 8.2 19.5	0.3 7.3 19.2	0.2 6.4 18.8
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.8	16.1 8.3	15.3 8.6	14.4 8.5



OIL ANALYSIS REPORT

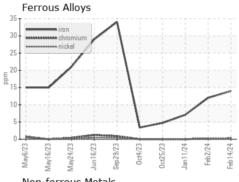


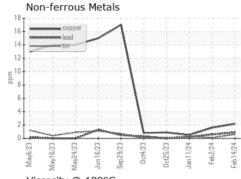


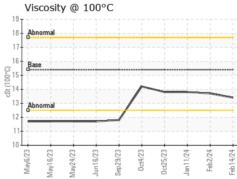
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

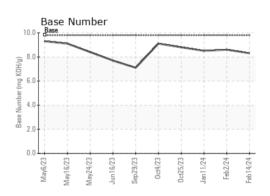
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.7	13.8

GRAPHS













Laboratory Sample No.

Test Package : FLEET

: GFL0105258 Lab Number : 06091501 Unique Number: 10884354

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

Tested Diagnosed

: 16 Feb 2024 : 17 Feb 2024

: 17 Feb 2024 - Wes Davis

GFL Environmental - 821 - Ozarks Hauling

33924 Olath Drive Lebanon, MO US 65536

T: (417)664-0010

Contact: Landen Johnson landen.johnson@gflenv.com

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)