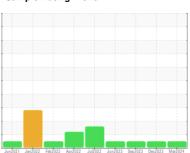


OIL ANALYSIS REPORT

Sample Rating Trend







423011-4659

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

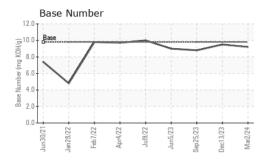
Fluid Condition

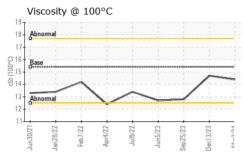
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

			Juni2021 Jani2022 Febi2022 Apri2022 Juni2023 Sep;2023 Dec2023 Marž024						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0112758	GFL0101357	GFL0091833			
Sample Date		Client Info		02 Mar 2024	13 Dec 2023	25 Sep 2023			
Machine Age	hrs	Client Info		36960	36960	0			
Oil Age	hrs	Client Info		34985	34985	0			
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Fuel		WC Method	>3.0	<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	>120	2	2	10			
Chromium	ppm	ASTM D5185m	>20	0	<1	0			
Nickel	ppm	ASTM D5185m	>5	0	<1	0			
Titanium	ppm	ASTM D5185m	>2	0	<1	0			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>20	1	2	2			
Lead	ppm	ASTM D5185m	>40	0	<1	1			
Copper	ppm	ASTM D5185m	>330	0	<1	<1			
Tin	ppm	ASTM D5185m	>15	0	<1	<1			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		0	<1	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	0	2	5			
Barium	ppm	ASTM D5185m	0	0	12	0			
Molybdenum	ppm	ASTM D5185m	60	57	58	61			
Manganese	ppm	ASTM D5185m	0	<1	<1	<1			
Magnesium	ppm	ASTM D5185m	1010	945	921	961			
Calcium	ppm	ASTM D5185m	1070	1008	999	1105			
Phosphorus	ppm	ASTM D5185m	1150	1032	972	1041			
Zinc	ppm	ASTM D5185m	1270	1207	1175	1268			
Sulfur	ppm	ASTM D5185m	2060	2953	3323	3317			
CONTAMINAN	TS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	4	5	3			
Sodium	ppm	ASTM D5185m		0	0	<1			
Potassium	ppm	ASTM D5185m	>20	0	2	<1			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>4	0.1	0.1	0.5			
Nitration	Abs/cm	*ASTM D7624	>20	5.3	4.2	6.7			
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	17.4	18.3			
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2			
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	12.9	13.8			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.2	9.5	8.8			
	0 - 9								



OIL ANALYSIS REPORT

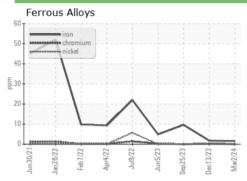


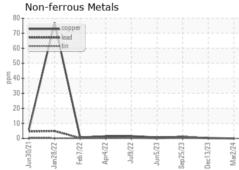


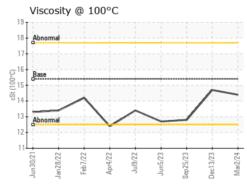
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

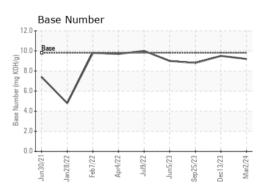
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.7	12.8

GRAPHS













Laboratory Sample No.

: GFL0112758 Lab Number : 06112014 Unique Number : 10915511

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Mar 2024 **Tested** : 08 Mar 2024

Diagnosed : 08 Mar 2024 - Wes Davis

GFL Environmental - 654 - Richmond Hauling

11800 Lewis Road Chester, VA US 23831

Contact: Jimmy Mayes jmayes@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)

T:

F: