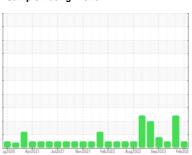


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



810015 AUTOCAR L9

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (48 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

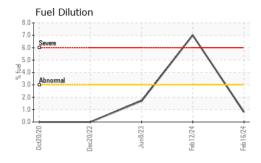
Fluid Condition

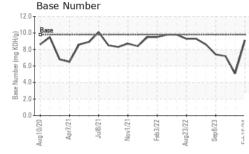
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

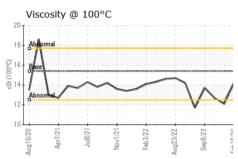
Q13)		.g2020 Apr	2021 Jul2021 Nov20	21 Feb2022 Aug2022 Sep20	123 Feb202	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103197	GFL0103205	GFL0094756
Sample Date		Client Info		16 Feb 2024	12 Feb 2024	25 Nov 2023
Machine Age	hrs	Client Info		9475	9432	8834
Oil Age	hrs	Client Info		43	598	1185
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	SEVERE	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
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	>90	4	32	33
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	7	7
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	2	26	189
Tin	ppm	ASTM D5185m	>15	0	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	1	<1	<1
Barium	ppm	ASTM D5185m	0	0	8	1
Molybdenum	ppm	ASTM D5185m	60	60	54	59
Manganese	ppm	ASTM D5185m	0	0	0	1
Magnesium	ppm	ASTM D5185m	1010	1024	799	911
Calcium	ppm	ASTM D5185m	1070	1051	916	1078
Phosphorus	ppm	ASTM D5185m	1150	1125	799	918
Zinc	ppm	ASTM D5185m	1270	1324	1031	1183
Sulfur	ppm	ASTM D5185m	2060	3369	2502	2969
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	6	8
Sodium	ppm	ASTM D5185m		2	1	4
Potassium	ppm	ASTM D5185m	>20	1	7	9
Fuel	%	ASTM D3524	>3.0	8.0	1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2	1	1
Nitration	Abs/cm	*ASTM D7624	>20	4.9	9.8	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	20.1	20.3
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.8	16.2	15.7
Base Number (BN)	mg KOH/g		9.8	9.1	5.1	7.2
	0					



OIL ANALYSIS REPORT



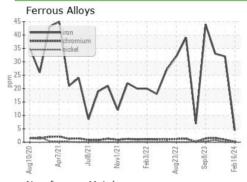


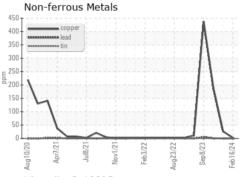


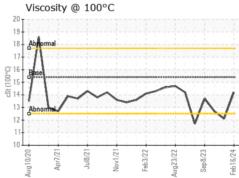
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

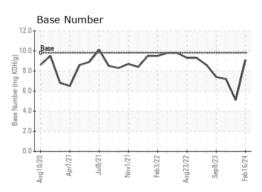
FLUID PROPI	ERITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	<u> </u>	12.7

GRAPHS













Laboratory Sample No.

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

Lab Number : 06092656 Unique Number: 10885509

: GFL0103197

Received : 19 Feb 2024 **Tested** Diagnosed

: 20 Feb 2024 : 20 Feb 2024 - Don Baldridge Test Package: FLEET (Additional Tests: PercentFuel)

GFL Environmental - 001 - Raleigh(CNG) 3741 Conquest Drive Garner, NC

US 27529 Contact: Craig Johnson craig.johnson@gflenv.com

T: (919)662-7100

F: (919)662-7130

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)

Report Id: GFL001 [WUSCAR] 06092656 (Generated: 02/20/2024 17:55:23) Rev: 1

Submitted By: Craig Johnson