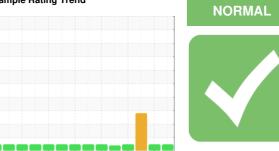


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 928002 Component Diesel Engine Fluid

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

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. 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

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113254	GFL0102882	GFL0090854
Sample Date		Client Info		27 Feb 2024	23 Nov 2023	15 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		10079	16281	8983
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	SEVERE
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	1.7	1 3.2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		mathad	limit/base	OLLEKO D†	hiotom (1	hiotomyO
		method		current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	8	4	9
Chromium	ppm	ASTM D5185(m)	>20	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	2	1	2
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	65	97	34
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	4	12	8
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	57	67	106
Calcium	ppm	ASTM D5185(m)	1070	2168	2137	1761
Phosphorus	ppm	ASTM D5185(m)	1150	872	975	851
Zinc	ppm	ASTM D5185(m)	1270	1102	1154	987
Sulfur	ppm	ASTM D5185(m)	2060	2690	2843	2179
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2	3	3
Sodium	ppm	ASTM D5185(m)		3	3	8
Potassium	ppm	ASTM D5185(m)	>20	10	4	4
Glycol	%	ASTM D7922*		0.0	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.4	0.1	0.4
Nitration	Abs/cm	ASTM D7624*	>20	9.1	9.1	8.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.8	23.4	22.2
Sullation						



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number : 02618583 Unique Number : 5735693

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : GFL0113254

Received **Tested** Diagnosed

: 28 Feb 2024 : 28 Feb 2024

: 28 Feb 2024 - Wes Davis

2.0 1.0 0.0

> GFL Environmental - 246 - Windsor 2700 Deziel Dr Windsor, ON CA N8W 5H8 Contact: Dave Varga

dvarga@gflenv.com T: (519)944-8009

Test Package : MOB 1 (Additional Tests: Glycol) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.