

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

401106 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 INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094972	GFL0080147	GFL0044763
Sample Date		Client Info		29 May 2024	29 May 2023	08 Feb 2023
Machine Age	hrs	Client Info		24837	23644	23355
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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		ASTM D5185(m)	>100	10	10	6
Chromium	ppm ppm	ASTM D5185(m)	>20	<1	<1	0
Nickel		ASTM D5185(m)	>20	0	0	<1
Titanium	ppm	ASTM D5185(m)	>4	0 <1	<1	<1
Silver	ppm	ASTM D5185(m) ASTM D5185(m)	>3	<1 0	<1	<1
Aluminum	ppm	ASTM D5185(m)		3	2	1
Lead	ppm	ASTM D5185(m) ASTM D5185(m)	>20 >40	0	<1	1
	ppm			1	1	<1
Copper Tin	ppm	ASTM D5185(m)	>330 >15	0	0	<1
	ppm	ASTM D5185(m)	>15	0	0	
Antimony	ppm	ASTM D5185(m)				<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
	ppm	ASTM D5185(m)	Long the first start	0		-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	101	9	3
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	101	61	59
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	595	973	972
Calcium	ppm	ASTM D5185(m)	1070	1229	1137	1116 1109
Phosphorus	ppm	ASTM D5185(m)	1150	681 701	1094	
Zinc	ppm	ASTM D5185(m)	1270	791	1201	1216
Sulfur Lithium	ppm	ASTM D5185(m) ASTM D5185(m)	2060	2571	2673 <1	2747 <1
	ppm	× 7	11 11 11	<1		
CONTAMINAN		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7	4	3
Sodium	ppm	ASTM D5185(m)	00	3	2	3
Potassium	ppm	ASTM D5185(m)	>20	1	1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.2	0.3	0
Nitration Sulfation	Abs/cm	ASTM D7624*	>20	8.3	7.7 19.7	6.6 21.4



35

30

jg 25 age 20

15

10

1600

140

1200

100

800

600

1600

1400

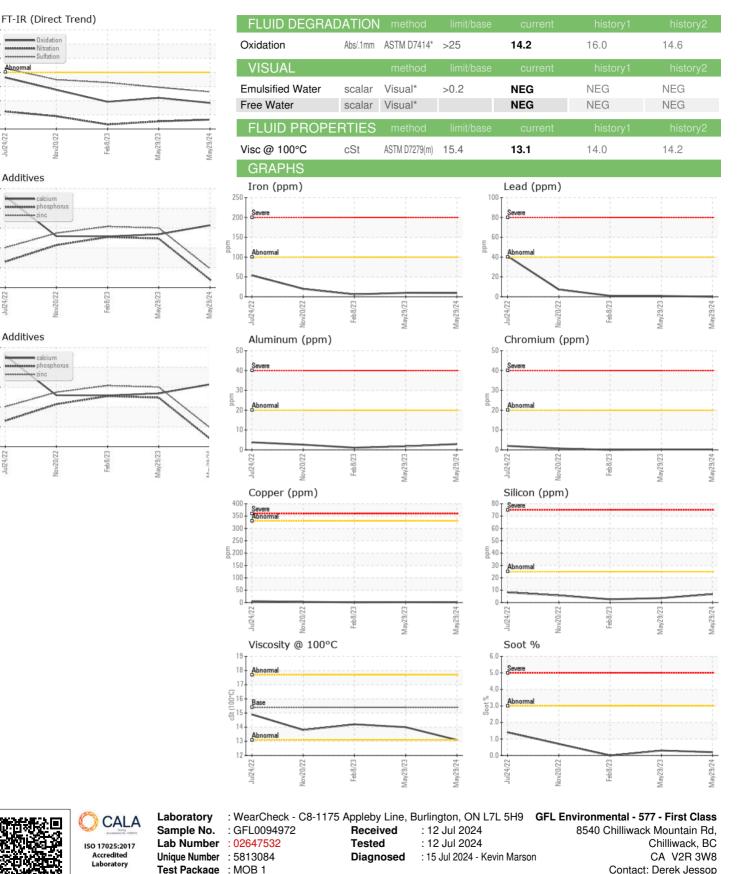
120

80

600

Jul24/22

OIL ANALYSIS REPORT



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.

> Submitted By: Derek Jessop Page 2 of 2

djessop@gflenv.com T: (604)798-5301

E:

Report Id: GFL577 [WCAMIS] 02647532 (Generated: 07/15/2024 08:17:25) Rev: 1