

OIL ANALYSIS REPORT

Sample Rating Trend



Area [1291183] 512026

Component Diesel Engine

Fluid

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Fluid Condition

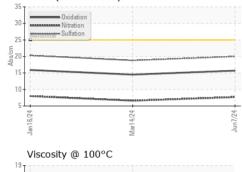
The condition of the oil is acceptable for the time in service.

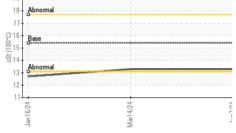
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118540	GFL0028554	GFL0110705
Sample Date		Client Info		07 Jun 2024	14 Mar 2024	16 Jan 2024
Machine Age	hrs	Client Info		4424	0	3552
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	MARGINAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	1 .4
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 D5185(m)	>90	13	8	12
Chromium	ppm	ASTM D5185(m)	>20	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	4	2	4
Lead	ppm	ASTM D5185(m)	>40	<1	<1	2
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
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	2	4	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	60	59	58
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	974	944	969
Calcium	ppm	ASTM D5185(m)	1070	1045	1061	1089
Phosphorus	ppm	ASTM D5185(m)	1150	972	1022	1001
Zinc	ppm	ASTM D5185(m)	1270	1183	1170	1187
Sulfur	ppm	ASTM D5185(m)	2060	2441	2740	2631
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2	3	4
Sodium	ppm	ASTM D5185(m)		4	3	4
Potassium	ppm	ASTM D5185(m)	>20	8	4	10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.2	0.1	0.2
Nitration	Abs/cm	ASTM D7624*	>20	7.7	6.6	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	18.8	20.3

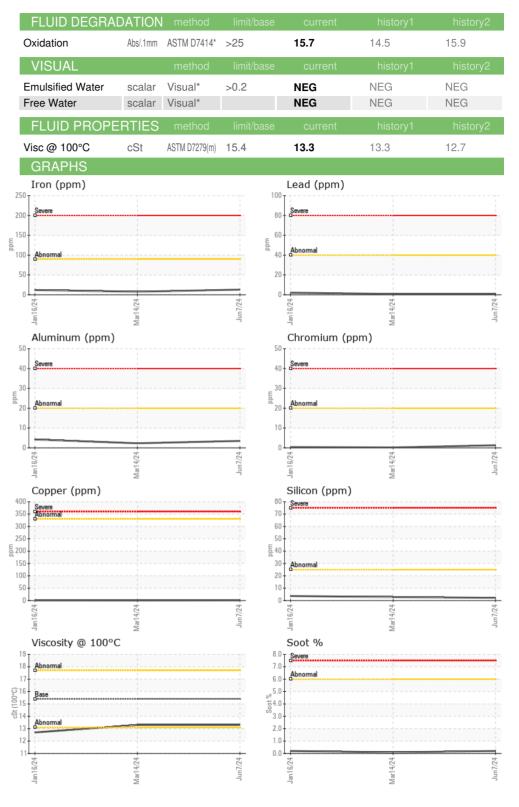


OIL ANALYSIS REPORT

FT-IR (Direct Trend)







Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 207 - Pickering SW CALA Sample No. : GFL0118540 Received : 11 Jun 2024 1034 TOY AVENUE, PICKERING YARD Lab Number : 02640986 Tested : 11 Jun 2024 PICKERING, ON ISO 17025:2017 Accredited Unique Number : 5798525 Diagnosed : 11 Jun 2024 - Wes Davis CA L1W 3P1 Laboratory Test Package : MOB 1 Contact: Ian Patton To discuss this sample report, contact Customer Service at 1-800-268-2131. ipatton@gflenv.com T: (905)831-6297 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. F: (905)426-3577

Report Id: GFL207 [WCAMIS] 02640986 (Generated: 06/11/2024 13:51:00) Rev: 1

Contact/Location: Ian Patton - GFL207 Page 2 of 2