

OIL ANALYSIS REPORT

Area [1282358] 101064

Diesel Engine

PETRO CANADA DURON SHP 10W30 (40 LTR)

Sample Rating Trend May2020 May2024 May2024



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Woor

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

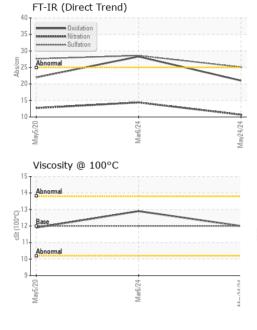
Fluid Condition

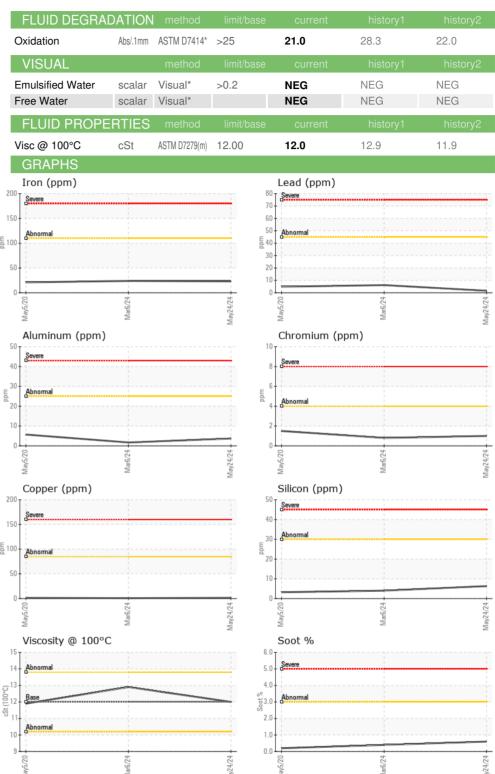
The condition of the oil is acceptable for the time in service.

-111)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0107928	GFL0107917	GFL0006020
Sample Date		Client Info		24 May 2024	06 Mar 2024	05 May 2020
Machine Age	hrs	Client Info		15870	363524	142854
Oil Age	hrs	Client Info		400	0	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	0.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>110	23	24	21
Chromium	ppm	ASTM D5185(m)	>4	1	<1	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	4	2	6
Lead	ppm	ASTM D5185(m)	>45	2	6	5
Copper	ppm	ASTM D5185(m)	>85	1	<1	1
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	2	1	4
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	67	73	65
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	950	1097	1208	1107
Calcium	ppm	ASTM D5185(m)	1050	1193	1310	1172
Phosphorus	ppm	ASTM D5185(m)	995	1121	1245	1140
Zinc	ppm	ASTM D5185(m)	1180	1305	1484	1387
Sulfur	ppm	ASTM D5185(m)	2600	2619	2912	2763
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	6	4	3
Sodium	ppm	ASTM D5185(m)		2	5	5
Potassium	ppm	ASTM D5185(m)	>20	6	2	14
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.6	0.4	0.2
Nitration	Abs/cm	ASTM D7624*	>20	10.7	14.4	12.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.1	28.6	27.6



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CALA ISO 17025:2017 Accredited Laboratory

Sample No. Lab Number : 02638357 Unique Number : 5787519 Test Package : MOB 1

: GFL0107928

To discuss this sample report, contact Customer Service at 1-800-268-2131.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 29 May 2024

Tested : 29 May 2024 Diagnosed : 29 May 2024 - Kevin Marson

GFL Environmental - 350 - Emeral Park Regina 2B Industrial Drive,, Great Plains Industrial Park,

Emerald Park, SK CA S4L 1B6

Contact: Vaughn Hortness vhortness@gflenv.com T: (877)244-9500

F: (306)244-9501

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: ?