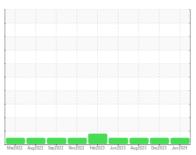


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
420061
Component

Diesel Engine

PETRO CANADA DURON XL SYN BLEND 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

15W40 (GAL)		Mar2022 Au	g2022 Sep2022 Nov2022	Feb2023 Jun2023 Aug2023 Dec20	23 Jun2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info		GFL0112446 20 Jun 2024	GFL0099541 27 Dec 2023	GFL0084334 10 Aug 2023
Machine Age	hrs	Client Info		5834	0	0
Oil Age	hrs	Client Info		736	183746	98546
Oil Changed Sample Status		Client Info		Changed NORMAL	Changed NORMAL	Changed NORMAL
	ION	and the set	15			
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel Water		WC Method	>5 >0.2	<1.0 NEG	<1.0 NEG	<1.0 NEG
Glycol		WC Method	>0.2	NEG	0.0	NEG
	0		12 24 //			
WEAR METAL		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	76	56	22
Chromium	ppm	ASTM D5185(m)	>20	2	2	<1
Nickel	ppm	ASTM D5185(m)	>4	<1 0	<1 0	<1 0
Titanium Silver	ppm	ASTM D5185(m) ASTM D5185(m)	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185(III) ASTM D5185(m)	>20	11	15	6
Lead	ppm	ASTM D5185(m)	>40	1	1	0
Copper	ppm	ASTM D5185(m)	>330	5	5	3
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Antimony	ppm	ASTM D5185(m)	710	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)	1	2	2	2
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	56	57	56
Manganese	ppm	ASTM D5185(m)	1	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	930	904	920
Calcium	ppm	ASTM D5185(m)	1070	1030	1086	986
Phosphorus	ppm	ASTM D5185(m)	1150	912	952	1002
Zinc	ppm	ASTM D5185(m)		1028	1141	1128
Sulfur	ppm	ASTM D5185(m)	2060	2010	2371	2418
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8	6	7
Sodium	ppm	ASTM D5185(m)		9	7	5
Potassium	ppm	ASTM D5185(m)	>20	14	6	9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1.3	1.1	0.4
Nitration	Abs/cm	ASTM D7624*	>20	12.9	11.1	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	29.3	25.1	21.4



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No. Unique Number : 5801488 Test Package : MOB 2

: GFL0112446 Lab Number : 02643949

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

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County Received **Tested**

Diagnosed

: 25 Jun 2024 : 26 Jun 2024

: 26 Jun 2024 - Kevin Marson

Rocky View County, AB **CA T1X 1X1** Contact: GFL Calgary

calgarymaintenance@gflenv.com T:

F: (403)369-6163

220 Carmek Blvd

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.

Report Id: GFL550 [WCAMIS] 02643949 (Generated: 06/26/2024 08:58:14) Rev: 1

Submitted By: GFL Calgary