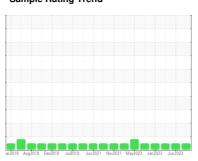


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **801099**

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

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

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091609	GFL0077636	GFL0070682
Sample Date		Client Info		12 Sep 2023	21 Jun 2023	30 Mar 2023
Machine Age	kms	Client Info		312790	13690	13111
Oil Age	kms	Client Info		0	480	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	26	32	35
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>30	3	4	7
Lead	ppm	ASTM D5185(m)	>30	0	0	0
Copper	ppm	ASTM D5185(m)	>150	2	3	2
Tin	ppm	ASTM D5185(m)	>5	0	0	<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	2	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	59	56	58
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	972	901	923
Calcium	ppm	ASTM D5185(m)	1070	1050	1005	1170
Phosphorus	ppm	ASTM D5185(m)	1150	1044	952	1062
Zinc	ppm	ASTM D5185(m)	1270	1190	1114	1194
Sulfur	ppm	ASTM D5185(m)	2060	2333	2147	2458
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	10	9	7
Sodium	ppm	ASTM D5185(m)		8	10	8
Potassium	ppm	ASTM D5185(m)	>20	1	1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1	1.2	1.2
Nitration	Abs/cm	ASTM D7624*	>20	9.7	11.5	11.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.3	24.4	26.0



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number Unique Number Test Package : MOB 2

: GFL0091609 : 02583461

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

ęż,

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

: 5644526 Diagnostician

: 19 Sep 2023

: 20 Sep 2023 : Wes Davis

un21/23

220 Carmek Blvd Rocky View County, AB **CA T1X 1X1**

Aav12/22

Contact: GFL Calgary calgarymaintenance@gflenv.com T:

Submitted By: GFL Calgary

F: (403)369-6163

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.