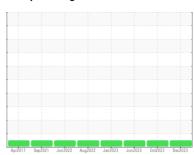


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 4533 Component

Front Diesel Engine

PETRO CANADA DURON HP 15W40 (22 LTR)

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.

April 17 Say 2021 Junil 2022 April 2022 Janil 2023 Junil 2023 Oct 2023 Oct 2023						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0099526	GFL0091642	GFL0077635
Sample Date		Client Info		11 Dec 2023	02 Oct 2023	22 Jun 2023
Machine Age	kms	Client Info		238565	230734	215717
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	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	ppm	ASTM D5185(m)	>100	13	32	8
Chromium	ppm	ASTM D5185(m)	>20	<1	1	0
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	4	1
Lead	ppm	ASTM D5185(m)	>40	2	5	<1
Copper	ppm	ASTM D5185(m)	>330	1	3	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
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	3	2	3
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	56	60	56
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	897	950	912
Calcium	ppm	ASTM D5185(m)	1070	1007	1037	1057
Phosphorus	ppm	ASTM D5185(m)	1150	959	989	1015
Zinc	ppm	ASTM D5185(m)		1122	1189	1140
Sulfur	ppm	ASTM D5185(m)	2060	2534	2458	2543
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	8	8
Sodium	ppm	ASTM D5185(m)		1	2	1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.6	1.2	0.1
Nitration	Abs/cm	ASTM D7624*	>20	7.0	9.0	5.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.9	22.5	18.8



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

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

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County : GFL0099526 : 02604320

: 5697405

Recieved : 20 Dec 2023 Diagnosed Diagnostician : Wes Davis

: 22 Dec 2023

220 Carmek Blvd Rocky View County, AB

CA T1X 1X1 Contact: GFL Calgary calgarymaintenance@gflenv.com

Submitted By: GFL Calgary

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.

F: (403)369-6163

T: