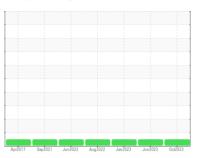


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



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.

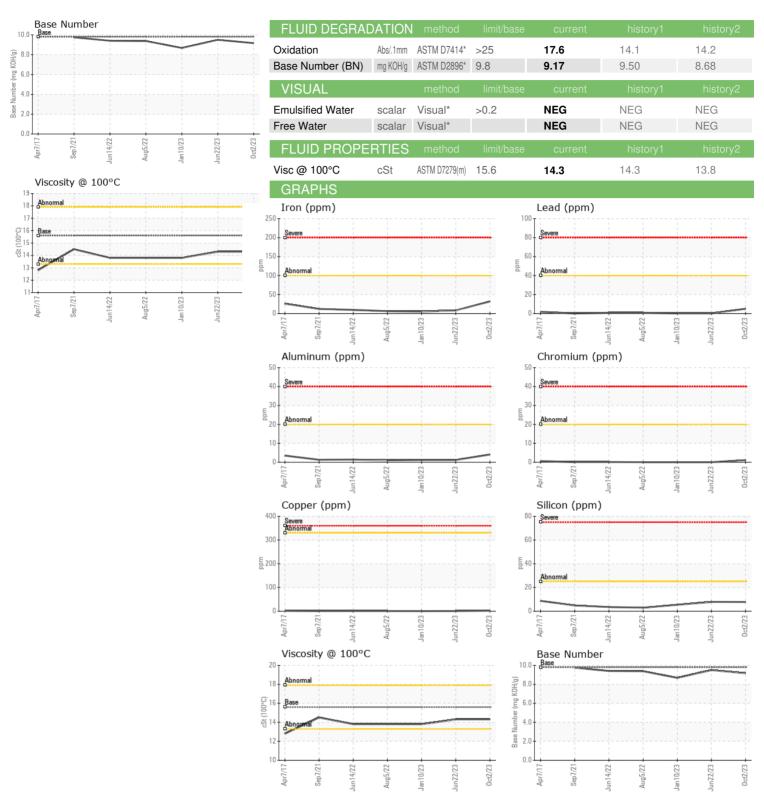
Fluid Condition

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

111)		Apr2017	Sep2021 Jun2022	Aug2022 Jan2023 Jun2023	0ct2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091642	GFL0077635	GFL0063784
Sample Date		Client Info		02 Oct 2023	22 Jun 2023	10 Jan 2023
Machine Age	kms	Client Info		230734	215717	212851
Oil Age	kms	Client Info		0	0	1618
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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)	>100	32	8	5
Chromium	ppm	ASTM D5185(m)	>20	1	0	0
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	4	1	1
Lead	ppm	ASTM D5185(m)	>40	5	<1	<1
Copper	ppm	ASTM D5185(m)	>330	3	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<1	0	0
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	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	2	3	6
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	60	60	56	57
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	950	912	891
Calcium	ppm	ASTM D5185(m)	1070	1037	1057	1046
Phosphorus	ppm	ASTM D5185(m)	1150	989	1015	1035
Zinc	ppm	ASTM D5185(m)	1270	1189	1140	1128
Sulfur	ppm	ASTM D5185(m)	2060	2458	2543	2585
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8	8	5
Sodium	ppm	ASTM D5185(m)		2	1	1
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1.2	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	9.0	5.1	5.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.5	18.8	19.2



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 : GFL0091642

: 02588195 : 5657261

Received : 11 Oct 2023 Diagnosed Diagnostician

: 16 Oct 2023 : Wes Davis

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

Contact: GFL Calgary calgarymaintenance@gflenv.com

> T: F: (403)369-6163

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.