

OIL ANALYSIS REPORT

Machine Id **413105**

Component **Diesel Engine**

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

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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.

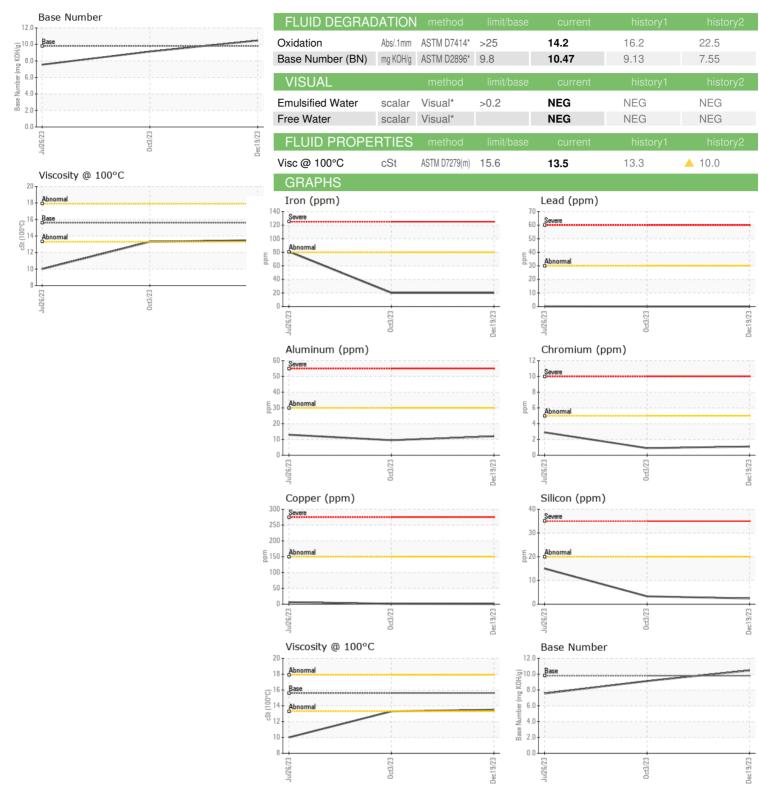
Fluid Condition

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

Ju2023 0x2023 0x2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0099602	GFL0091555	GFL0084292
Sample Date		Client Info		19 Dec 2023	03 Oct 2023	26 Jul 2023
Machine Age	kms	Client Info		65004	0	213908
Oil Age	kms	Client Info		0	46601	0
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	1.4
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)	>80	20	20	<u></u> 81
Chromium	ppm	ASTM D5185(m)	>5	1	<1	3
Nickel	ppm	ASTM D5185(m)	>2	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>30	12	10	13
Lead	ppm	ASTM D5185(m)	>30	0	0	<1
Copper	ppm	ASTM D5185(m)	>150	<1	1	6
Tin	ppm	ASTM D5185(m)	>5	0	0	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	4	31
Barium	ppm	ASTM D5185(m)	0	0	<1	5
Molybdenum	ppm	ASTM D5185(m)	60	56	57	43
Manganese	ppm	ASTM D5185(m)	0	0	0	3
Magnesium	ppm	ASTM D5185(m)	1010	908	896	557
Calcium	ppm	ASTM D5185(m)	1070	1026	1060	1575
Phosphorus	ppm	ASTM D5185(m)	1150	952	954	786
Zinc	ppm	ASTM D5185(m)	1270	1117	1148	868
Sulfur	ppm	ASTM D5185(m)	2060	2506	2425	1927
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	2	3	15
Sodium	ppm	ASTM D5185(m)		3	4	4
Potassium	ppm	ASTM D5185(m)	>20	18	20	44
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.5	0.3	0.4
Nitration	Abs/cm	ASTM D7624*	>20	6.8	7.2	9.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.7	20.3	24.0



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CALA ISO 17025:2017 Accredited Laboratory

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

: 02605732 : 5698817

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County : GFL0099602

Recieved : 02 Jan 2024 Diagnosed Diagnostician

: 04 Jan 2024 : Wes Davis

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

Contact: GFL Calgary calgarymaintenance@gflenv.com

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

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