

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

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

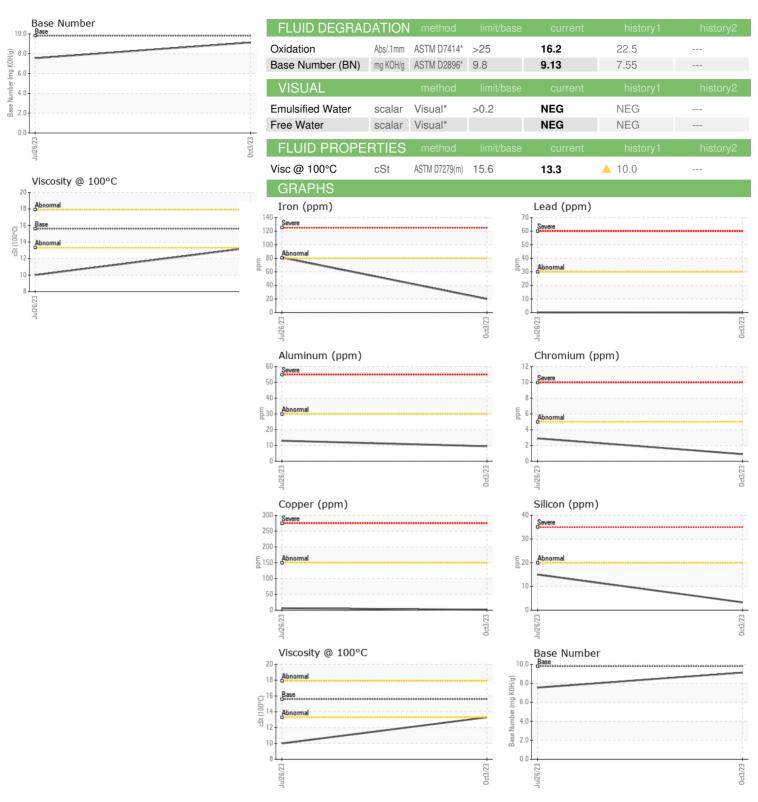
Fluid Condition

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

AL)			Jul2023	Oct2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091555	GFL0084292	
Sample Date		Client Info		03 Oct 2023	26 Jul 2023	
Machine Age	hrs	Client Info		0	213908	
Oil Age	hrs	Client Info		46601	0	
Oil Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	1.4	
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	20	<u></u> ▲ 81	
Chromium	ppm	ASTM D5185(m)	>5	<1	3	
Nickel	ppm	ASTM D5185(m)	>2	0	0	
Titanium	ppm	ASTM D5185(m)		0	<1	
Silver	ppm	ASTM D5185(m)	>3	<1	0	
Aluminum	ppm	ASTM D5185(m)	>30	10	13	
Lead	ppm	ASTM D5185(m)	>30	0	<1	
Copper	ppm	ASTM D5185(m)	>150	1	6	
Tin	ppm	ASTM D5185(m)	>5	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	4	31	
Barium	ppm	ASTM D5185(m)	0	<1	5	
Molybdenum	ppm	ASTM D5185(m)	60	57	43	
Manganese	ppm	ASTM D5185(m)	0	0	3	
Magnesium	ppm	ASTM D5185(m)	1010	896	557	
Calcium	ppm	ASTM D5185(m)	1070	1060	1575	
Phosphorus	ppm	ASTM D5185(m)	1150	954	786	
Zinc	ppm	ASTM D5185(m)	1270	1148	868	
Sulfur	ppm	ASTM D5185(m)	2060	2425	1927	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	3	15	
Sodium	ppm	ASTM D5185(m)		4	4	
Potassium	ppm	ASTM D5185(m)	>20	20	44	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.3	0.4	
Nitration	Abs/cm	ASTM D7624*	>20	7.2	9.3	
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.3	24.0	



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: GFL0091555

: 02588200 : 5657266 Test Package : MOB 2

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County Received : 11 Oct 2023 Diagnosed : 16 Oct 2023

: Wes Davis Diagnostician

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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