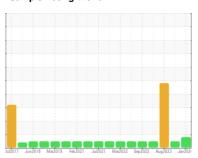


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **201042**

Component **Diesel Engine**

PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Silver ppm levels are abnormal.

Contamination

There is no indication of any contamination in the oil.

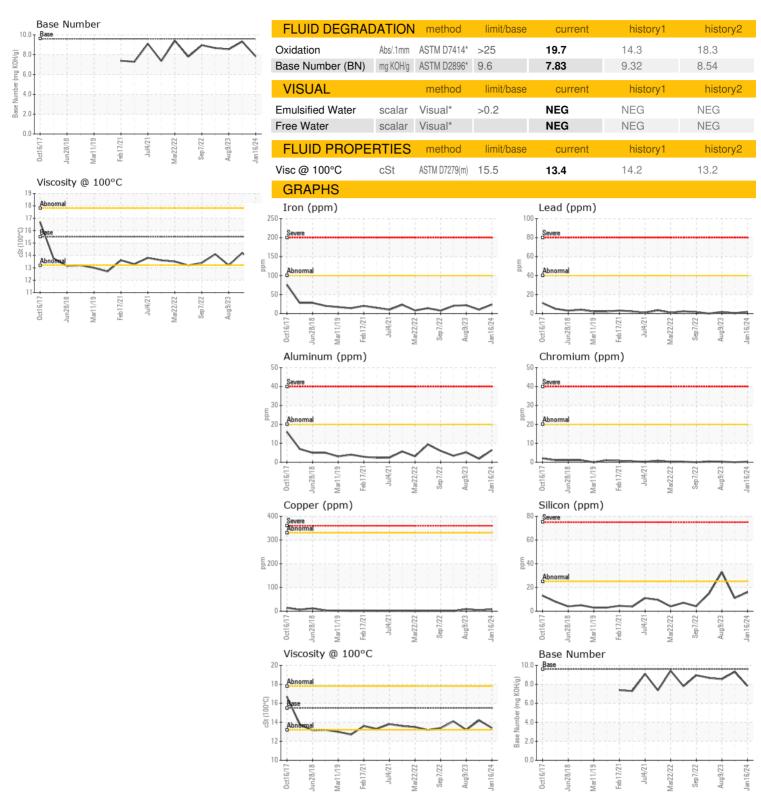
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

15W40 (GAL)						
SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0099553	GFL0084348	GFL0084320
Sample Date		Client Info		16 Jan 2024	17 Aug 2023	09 Aug 2023
Machine Age	kms	Client Info		402088	392291	391695
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINA	TION	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	0.0	△ 0.09
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	24	10	22
Chromium	ppm	ASTM D5185(m)	>20	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	△ 3	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	6	2	5
Lead	ppm	ASTM D5185(m)	>40	2	<1	2
Copper	ppm	ASTM D5185(m)		8	4	9
Tin	ppm	ASTM D5185(m)	>15	<1	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)	1	2	3	3
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	56	55	58
Manganese	ppm	ASTM D5185(m)	1	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	870	909	920
Calcium	ppm	ASTM D5185(m)	1070	1072	1042	1012
Phosphorus	ppm	ASTM D5185(m)	1150	937	1023	1101
Zinc	ppm	ASTM D5185(m)		1138	1113	1115
Sulfur Lithium	ppm	ASTM D5185(m) ASTM D5185(m)	2060	2553 <1	2555 <1	2567 <1
CONTAMINA		method	limit/base	current		
					history1	history2
Silicon Sodium	ppm	ASTM D5185(m)	>25	16	11	33
Sodium Potassium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>20	50 2	42	▲ 304 ▲ 17
	Phili	. ,				
INFRA-RED	0/	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.5	0	0.5
Nitration	Abs/cm		>20	12.4	5.6	10.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.9	19.4	21.5



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

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

: GFL0099553 : 02612324 : 5721419

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

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County Recieved : 31 Jan 2024 Diagnosed : 01 Feb 2024

: Bill Quesnel Diagnostician

220 Carmek Blvd Rocky View County, AB

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

Submitted By: GFL Calgary

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: