

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 413101 Component

Fluid

Diesel Engine

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

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

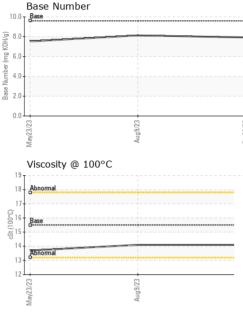
Fluid Condition

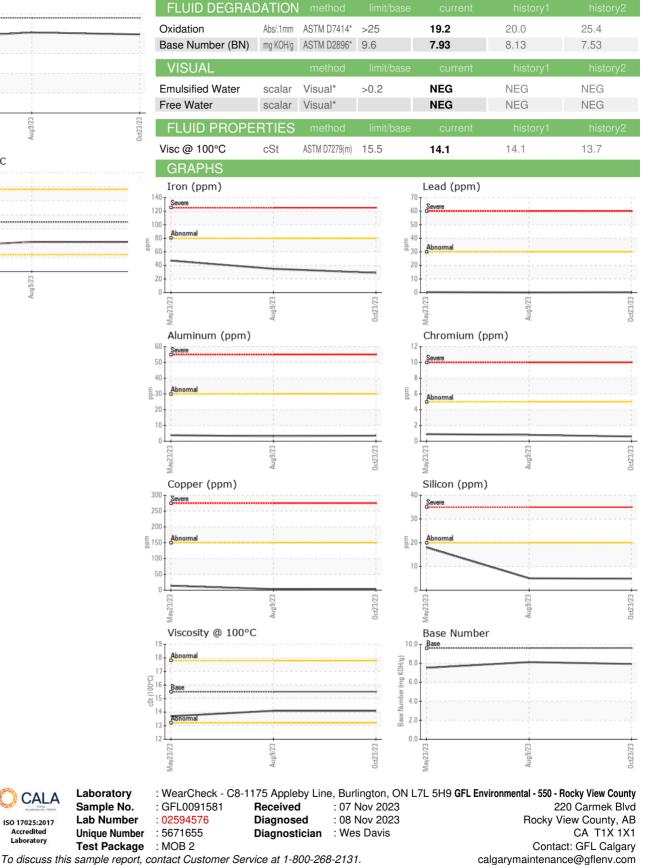
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091581	GFL0084317	GFL0077606
Sample Date		Client Info		23 Oct 2023	09 Aug 2023	23 May 2023
Machine Age	kms	Client Info		53055	1135	583
Oil Age	kms	Client Info		0	578	583
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	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)	>80	29	35	47
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>30	4	3	4
Lead	ppm	ASTM D5185(m)	>30	<1	0	<1
Copper	ppm	ASTM D5185(m)	>150	2	4	14
Tin	ppm	ASTM D5185(m)	>5	0	<1	<1
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)	1	2	5	42
Barium	ppm	ASTM D5185(m)	1	<1	<1	4
Molybdenum	ppm	ASTM D5185(m)	60	57	59	41
Manganese	ppm	ASTM D5185(m)	1	0	<1	5
Magnesium	ppm	ASTM D5185(m)	1010	905	949	575
Calcium	ppm		1070	1085	1116	1673
Phosphorus	ppm	ASTM D5185(m)	1150	938	1028	779
Zinc	ppm	ASTM D5185(m)	1270	1158	1179	864
Sulfur	ppm	ASTM D5185(m)	2060	2348	2412	1944
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	5	5	18
Sodium	ppm	ASTM D5185(m)		2	2	5
Potassium	ppm	ASTM D5185(m)	>20	4	5	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.8	0.7	0.7
Nitration	Abs/cm	ASTM D7624*	>20	9.8	10.1	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.0	23.2	24.8



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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.

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