

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 428097

Component Diesel Engine

Fluid PETRO CANADA DURON HP 15W40 (--- LTR)

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.

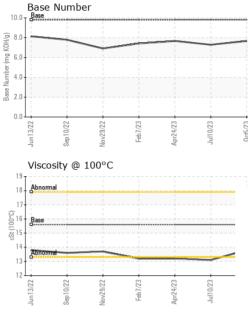
Fluid Condition

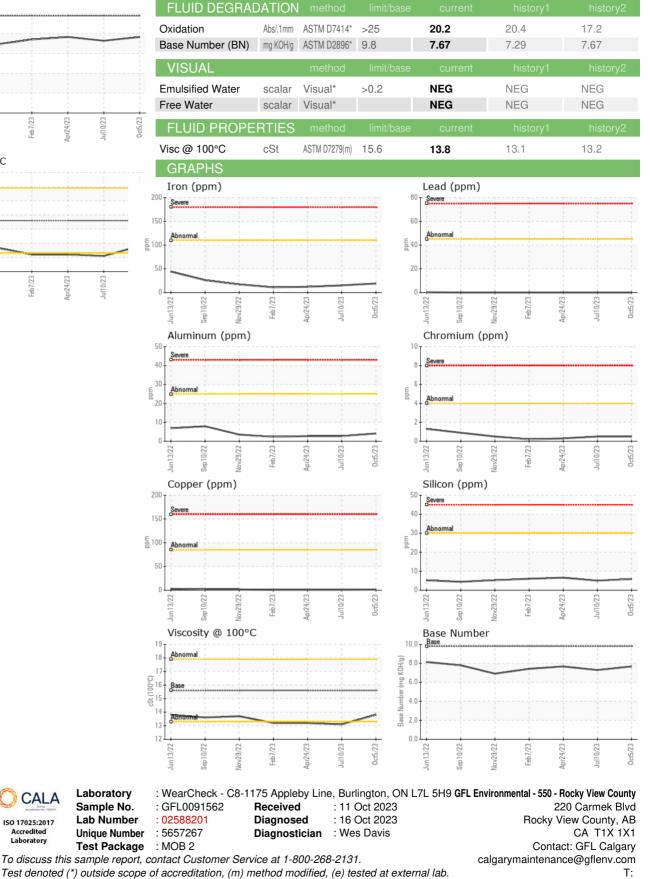
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091562	GFL0084271	GFL0077577
Sample Date		Client Info		05 Oct 2023	10 Jul 2023	24 Apr 2023
Machine Age	hrs	Client Info		9020	238426	7881
Oil Age	hrs	Client Info		0	0	589
Oil Changed		Client Info		Changed	Changed	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	9	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>110	19	15	12
Chromium	ppm	ASTM D5185(m)		<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>25	4	3	3
Lead	ppm	ASTM D5185(m)	>45	0	0	0
Copper	ppm	ASTM D5185(m)	>85	1	1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	<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)	0	2	3	2
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	60	58	55	57
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	918	895	917
Calcium	ppm	ASTM D5185(m)	1070	1011	1000	1092
Phosphorus	ppm	ASTM D5185(m)	1150	932	976	1020
Zinc	ppm	ASTM D5185(m)	1270	1160	1116	1115
Sulfur	ppm	ASTM D5185(m)	2060	2409	2360	2441
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	6	5	7
Sodium	ppm	ASTM D5185(m)		6	6	5
Potassium	ppm	ASTM D5185(m)	>20	6	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.6	0.4	0.4
Nitration	Abs/cm	ASTM D7624*	>20	10.4	9.8	9.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.2	22.3	20.8
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Validity of results and interpretation are based on the sample and information as supplied.

CALA

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Laboratory

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