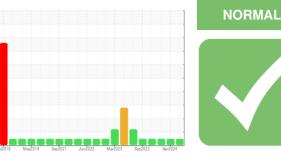


OIL ANALYSIS REPORT



SAMPLE INFORMATION method limit/base



Machine Id

801107

Component Diesel Engine Fluid

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

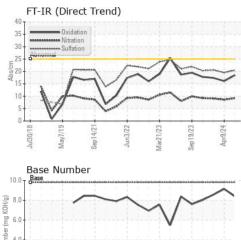
Fluid Condition

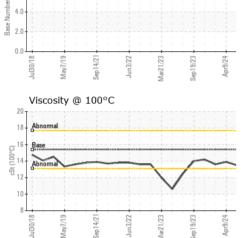
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

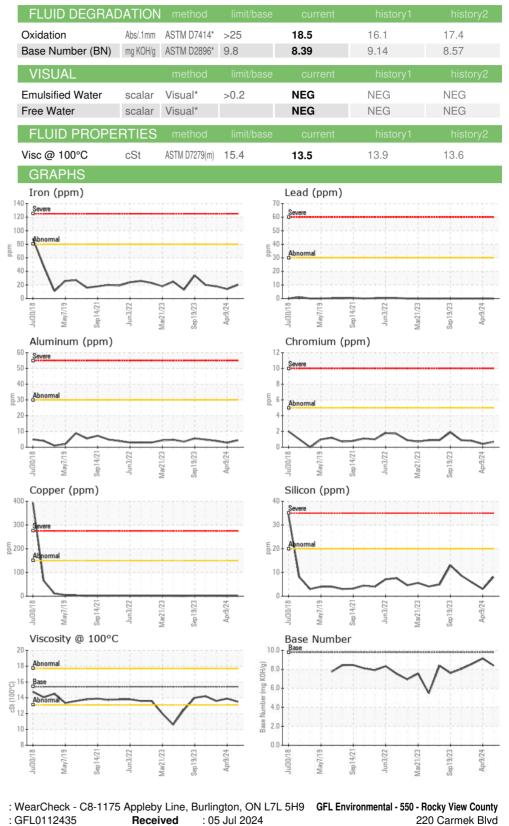
Sample Number		Client Info		GFL0112435	GFL0117330	GFL0099613
Sample Date		Client Info		30 Jun 2024	09 Apr 2024	03 Feb 2024
Machine Age	kms	Client Info		5616907	14866	14409
Oil Age	kms	Client Info		0	455	594
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
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	14	18
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>30	4	3	4
Lead	ppm	ASTM D5185(m)	>30	0	0	0
Copper	ppm	ASTM D5185(m)		1	<1	1
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	4	2	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	59	57	57
Manganese	ppm	ASTM D5185(m)	0	<1	<1	0
Magnesium	ppm	ASTM D5185(m)	1010	955	944	927
Calcium	ppm	ASTM D5185(m)	1070	1036	1043	1065
Phosphorus	ppm	ASTM D5185(m)	1150	989	978	980
Zinc	ppm	ASTM D5185(m)	1270	1180	1171	1172
Sulfur	ppm	ASTM D5185(m)	2060	2435	2346	2461
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	8	3	6
Sodium	ppm	ASTM D5185(m)		6	6	6
Potassium	ppm	ASTM D5185(m)	>20	1	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.3	0.2	0.4
Nitration	Abs/cm	ASTM D7624*	>20	9.2	8.6	9.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.5	19.5	20.6



OIL ANALYSIS REPORT







Laboratory CALA Sample No. : GFL0112435 Received : 05 Jul 2024 Lab Number : 02645714 Tested : 05 Jul 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5803253 Diagnosed : 05 Jul 2024 - Wes Davis Test Package : MOB 2 To discuss this sample report, contact Customer Service at 1-800-268-2131. calgarymaintenance@gflenv.com

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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.

Report Id: GFL550 [WCAMIS] 02645714 (Generated: 07/05/2024 17:35:00) Rev: 1

Submitted By: GFL Calgary Page 2 of 2

F: (403)369-6163

Rocky View County, AB

CA T1X 1X1 Contact: GFL Calgary

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