

## **OIL ANALYSIS REPORT**

Sample Rating Trend



#### Machine Id

## 724033-3070

### 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.

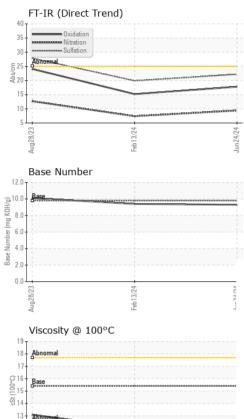
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103534	GFL0103537	GFL0085335
Sample Date		Client Info		24 Jun 2024	13 Feb 2024	28 Aug 2023
Machine Age	hrs	Client Info		7960	0	0
Oil Age	hrs	Client Info		0	159	542
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	<1.0	1.8	<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 D5185m	>100	72	41	75
Chromium	ppm	ASTM D5185m	>20	4	2	4
Nickel	ppm	ASTM D5185m	>4	1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	20	9	5
Lead	ppm	ASTM D5185m	>40	10	4	15
Copper	ppm	ASTM D5185m	>330	7	3	21
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	9	4	15
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	54	38
Manganese	ppm	ASTM D5185m	0	2	<1	3
Magnesium	ppm	ASTM D5185m	1010	984	832	633
Calcium	ppm	ASTM D5185m	1070	1213	990	1517
Phosphorus	ppm	ASTM D5185m	1150	1072	960	785
Zinc	ppm	ASTM D5185m	1270	1325	1132	996
Sulfur	ppm	ASTM D5185m	2060	3724	2781	2912
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	12
Sodium	ppm	ASTM D5185m		11	8	13
Potassium	ppm	ASTM D5185m	>20	10	8	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.2	0.8	2.5
Nitration	Abs/cm	*ASTM D7624	>20	9.4	7.4	12.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	19.9	27.9
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	15.2	24.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.3	9.4	10.1
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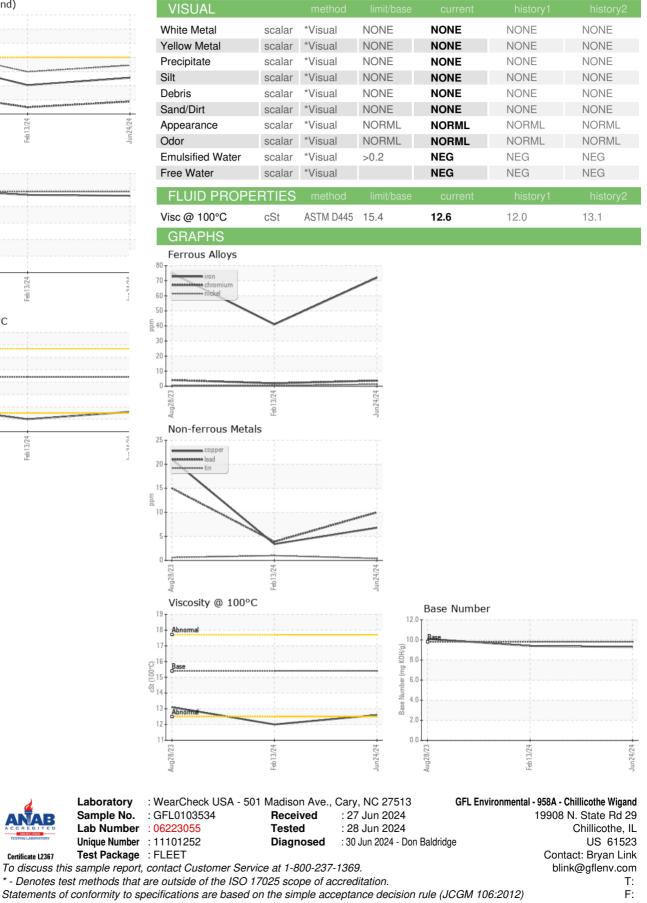
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Aug28/23

# **OIL ANALYSIS REPORT**



Feb13/24



Certificate 12367

Submitted By: DREW MOOBERRY