

## **OIL ANALYSIS REPORT**

Base Number (BN) mg KOH/g ASTM D2896

Sample Rating Trend



### Machine Id 2580 Component **Diesel Engine** PETRO CANADA 15W40 (--- QTS)

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### 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.

		Jun2020 Aug	2020 Oct2020 Dec2020	Mar2021 Apr2021 Dec2021 May2	023 Sep2023	
SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		RW0004655	RW0004628	RW0002460
Sample Date		Client Info		20 Sep 2023	08 May 2023	06 Dec 2021
Machine Age	hrs	Client Info		6757	6173	0
Oil Age	hrs	Client Info		330	828	0
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	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 METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	6	21	10
Chromium	ppm	ASTM D5185m	>20	<1	1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	2	5	4
_ead	ppm	ASTM D5185m	>40	1	2	<1
Copper	ppm	ASTM D5185m	>330	6	26	2
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		11	199	53
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		60	78	51
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		898	570	793
Calcium	ppm	ASTM D5185m		1078	1551	1314
Phosphorus	ppm	ASTM D5185m		1101	1110	1019
Zinc	ppm	ASTM D5185m		1257	1409	1091
Sulfur	ppm	ASTM D5185m		3094	3858	2699
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	9	6
Sodium	ppm	ASTM D5185m		4	1	0
Potassium	ppm	ASTM D5185m	>20	5	8	16
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.0	9.2	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	22.7	20.5
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	18.5	15.8
				10.00	0.40	7 70

Report Id: NEWMUS [WUSCAR] 06016667 (Generated: 11/29/2023 19:48:19) Rev: 1

Contact/Location: ERIC KING - NEWMUS

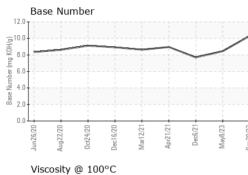
8.46

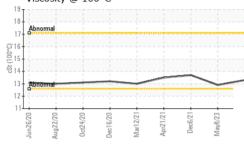
10.30

7.70



# **OIL ANALYSIS REPORT**







Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

Ē

F: (231)724-4090