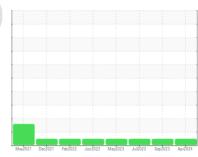


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id
2594
Component
Diesel Engine
Fluid

PETRO CANADA 15W40 (--- QTS)

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#### 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.

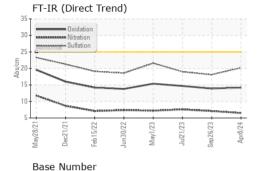
### **Fluid Condition**

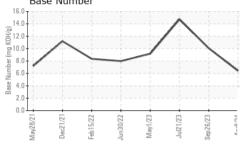
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

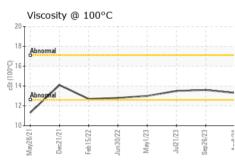
		May2021 E	Dec2021 Feb2022 Jun202	22 May2023 Jul2023 Sep2023	Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RW0005072	RW0004851	RW0004342
Sample Date		Client Info		08 Apr 2024	26 Sep 2023	21 Jul 2023
Machine Age	hrs	Client Info		4751	4146	3891
Oil Age	hrs	Client Info		220	300	270
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	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	12	10	15
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel	ppm		>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	7	5
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		356	6	32
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		76	59	64
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		423	883	912
Calcium	ppm	ASTM D5185m ASTM D5185m		1288 1000	1009 959	1117 1002
Phosphorus Zinc	ppm	ASTM D5165III		1042	1148	1255
Sulfur	ppm	ASTM D5185m		3409	2979	3481
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	4
Sodium	ppm	ASTM D5185m		3	2	6
Potassium	ppm	ASTM D5185m	>20	4	12	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.5	7.1	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	18.1	19.0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	13.9	14.7
Base Number (BN)	mg KOH/g	ASTM D2896		6.42	10.07	14.72



## **OIL ANALYSIS REPORT**





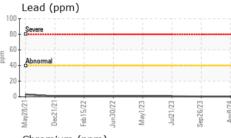


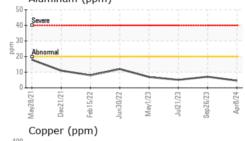
	. *\" .				
White Metal sca	alar *Visual	NONE	NONE	NONE	NONE
Yellow Metal sca	alar *Visual	NONE	NONE	NONE	NONE
Precipitate sca	alar *Visual	NONE	NONE	NONE	NONE
Silt sca	alar *Visual	NONE	NONE	NONE	NONE
Debris sca	alar *Visual	NONE	NONE	NONE	NONE
Sand/Dirt sca	alar *Visual	NONE	NONE	NONE	NONE
Appearance sca	alar *Visual	NORML	NORML	NORML	NORML
Odor sca	alar *Visual	NORML	NORML	NORML	NORML
Emulsified Water sca	alar *Visual	>0.2	NEG	NEG	NEG
Free Water sca	alar *Visual		NEG	NEG	NEG

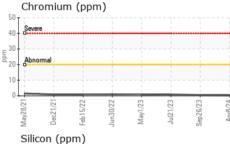
FLUID FROFEI	TIES	method		HISTOLAL	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	13.3	13.6	13.5

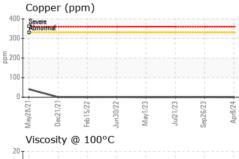
ا) Iron آن	ppm	) :					
Severe							
50							
Abnormal	ı.						
50							
121	/21	/22	722	/23	/23	/23	724
May28/2	)ec21	eb 15	un30	May1/2	Jul21/	Sep26/2	Apr8/24
	_			_		co.	
Alumir	านฑ	(ppn	ו)				

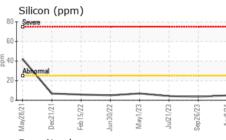
**GRAPHS** 

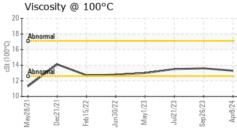


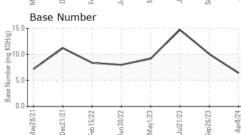
















Certificate 12367

Laboratory Sample No.

: RW0005072 Lab Number : 06154661 Unique Number : 10990084

Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Apr 2024 **Tested** : 23 Apr 2024

Diagnosed : 23 Apr 2024 - Wes Davis

**NEWKIRK ELECTRIC** 1875 ROBERTS ST. MUSKEGON, MI US 49442 Contact: ERIC KING ewking@newkirk-electric.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (231)724-4090

Report Id: NEWMUS [WUSCAR] 06154661 (Generated: 04/24/2024 09:44:34) Rev: 1

Contact/Location: ERIC KING - NEWMUS

T: (231)206-6131