



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id

**614**

Component

**Diesel Engine**

Fluid

**PETRO CANADA TEST OIL GREY II HDEO 0W20 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>AK0000103</b>	AK0000108	AK0000110
Sample Date		Client Info		<b>02 Jan 2024</b>	18 Dec 2023	31 Oct 2023
Machine Age	mls	Client Info		<b>624226</b>	614079	603283
Oil Age	mls	Client Info		<b>10147</b>	46840	0
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>30</b>	40	21
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	2	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	3
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	4	3
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	1	<1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

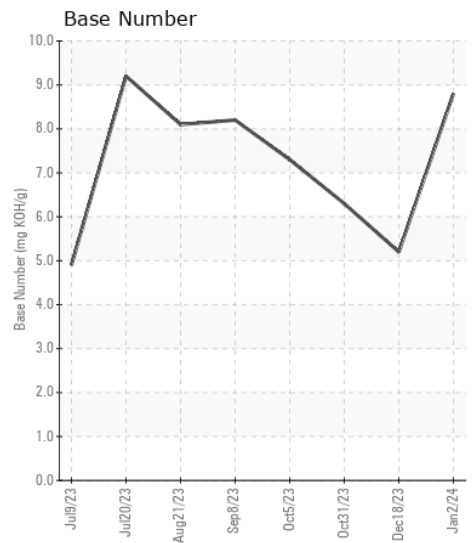
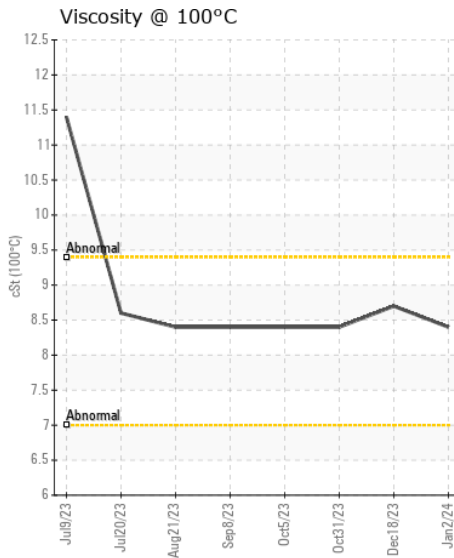
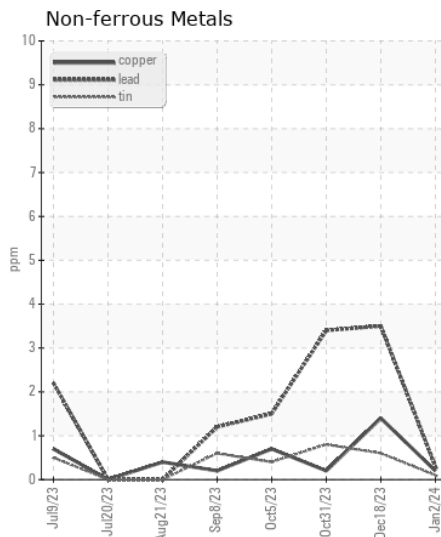
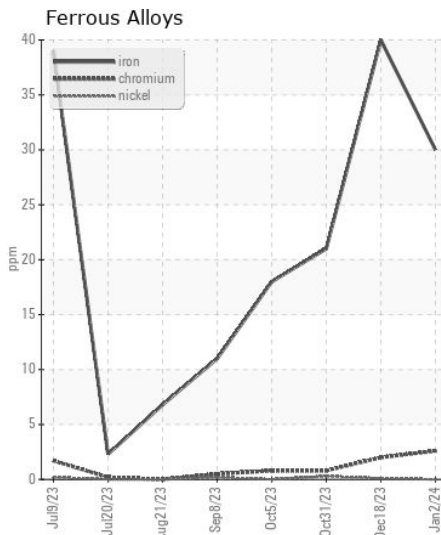
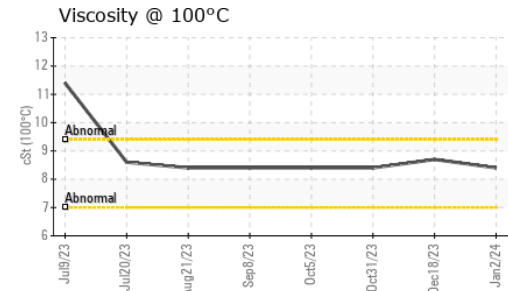
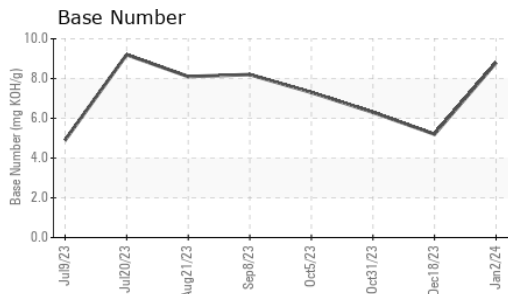
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	5	4
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	1
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>6	<b>0.1</b>	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.5</b>	10.9	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.0</b>	29.6	27.8
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## 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.

Sodium	ppm	ASTM D5185m		<b>2</b>	0	<1
Boron	ppm	ASTM D5185m		<b>0</b>	0	3
Barium	ppm	ASTM D5185m		<b>0</b>	9	0
Molybdenum	ppm	ASTM D5185m		<b>60</b>	65	62
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>1032</b>	1004	974
Calcium	ppm	ASTM D5185m		<b>1049</b>	1113	1066
Phosphorus	ppm	ASTM D5185m		<b>1117</b>	1098	1015
Zinc	ppm	ASTM D5185m		<b>1310</b>	1290	1332
Sulfur	ppm	ASTM D5185m		<b>3201</b>	3009	2948
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.5</b>	26.9	24.7
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.8</b>	5.2	6.3
Visc @ 100°C	cSt	ASTM D445		<b>8.4</b>	8.7	8.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : AK0000103 **Received** : 18 Jan 2024  
**Lab Number** : 06064820 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10836202 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

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)

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