



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id  
**AH3111 - Auxiliary Generator**  
Component  
**Genset**  
Fluid  
**PETRO CANADA CM MHP 154 (138 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0860189</b>	WC0753471	WC0860184
Sample Date		Client Info		<b>04 Jan 2024</b>	25 Nov 2023	30 Oct 2023
Machine Age	hrs	Client Info		<b>22996</b>	22077	21513
Oil Age	hrs	Client Info		<b>0</b>	564	500
Filter Age	hrs	Client Info		<b>0</b>	564	0
Oil Changed		Client Info		<b>N/A</b>	Changed	N/A
Filter Changed		Client Info		<b>N/A</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	MARGINAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184*		<b>0</b>	0	0
Iron	ppm	ASTM D5185(m)	>50	<b>6</b>	3	4
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	▲ 2
Aluminum	ppm	ASTM D5185(m)	>12	<b>1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>17	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>70	<b>1</b>	<1	2
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

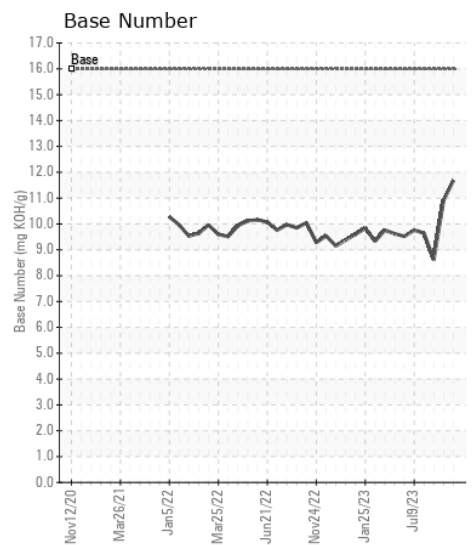
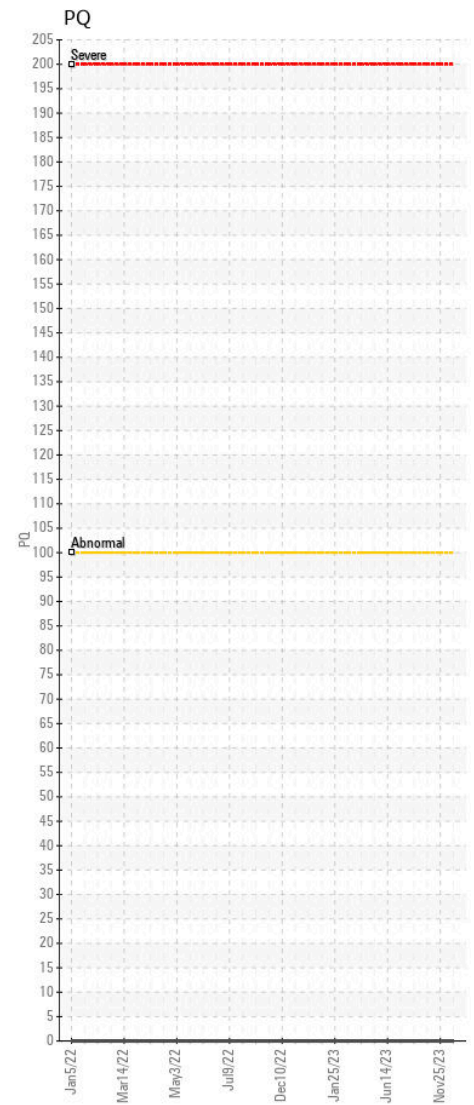
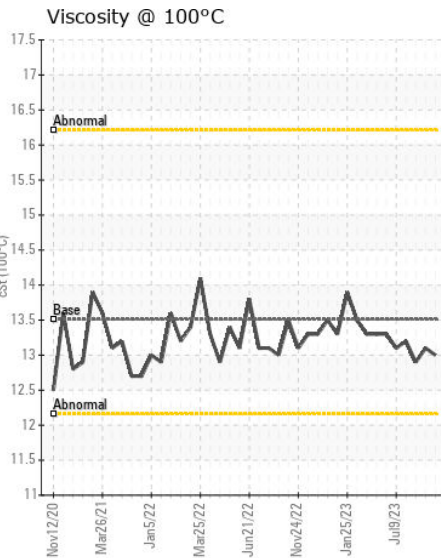
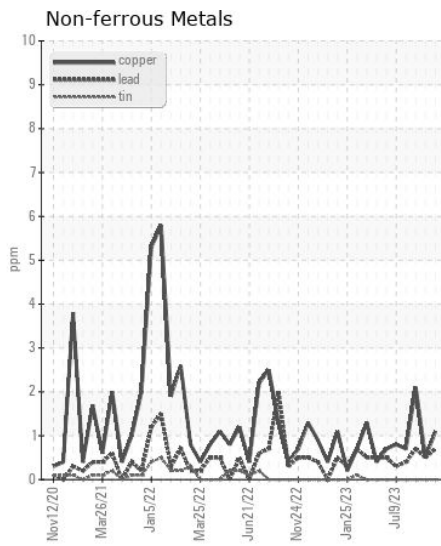
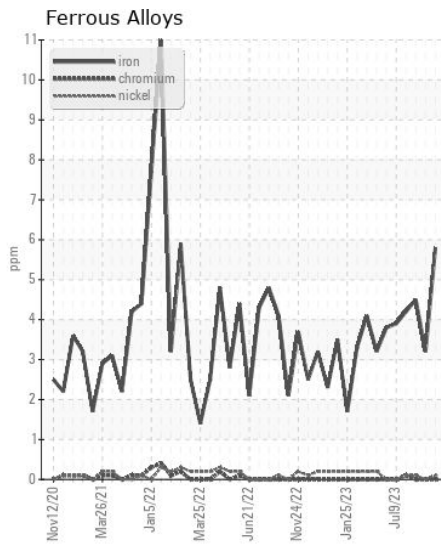
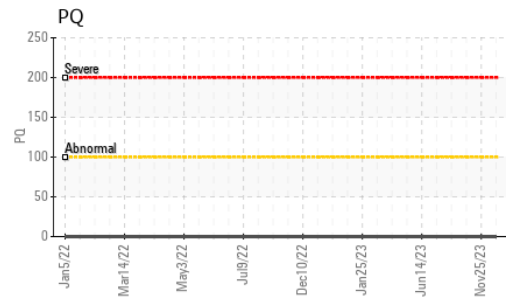
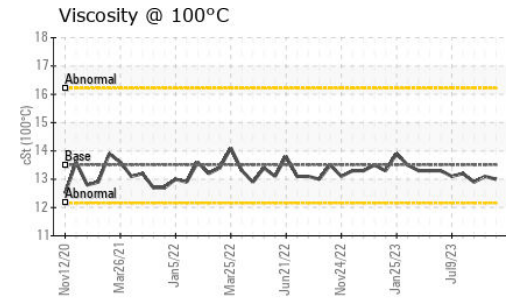
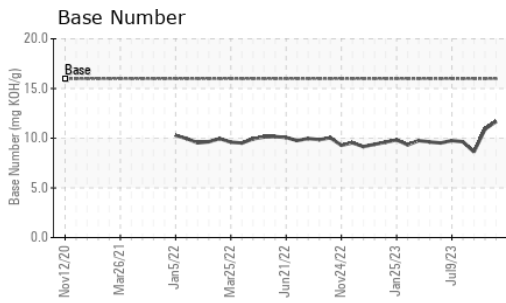
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	0	0
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.1</b>	6.4	6.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.4</b>	18.6	19.1
Emulsified Water	scalar	Visual*	>0.1	<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 D5185(m)		<b>2</b>	2	2
Boron	ppm	ASTM D5185(m)		<b>5</b>	4	5
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)		<b>54</b>	54	55
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>887</b>	884	894
Calcium	ppm	ASTM D5185(m)		<b>1435</b>	1374	1389
Phosphorus	ppm	ASTM D5185(m)		<b>987</b>	948	973
Zinc	ppm	ASTM D5185(m)	1098	<b>1141</b>	1124	1145
Sulfur	ppm	ASTM D5185(m)		<b>3085</b>	2909	2913
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.1</b>	14.2	14.5
Base Number (BN)	mg KOH/g	ASTM D2896*	15.99	<b>11.68</b>	10.91	8.62
Visc @ 100°C	cSt	ASTM D7279(m)	13.51	<b>13.0</b>	13.1	12.9



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0860189  
**Lab Number** : 02608085  
**Unique Number** : 5709171  
**Test Package** : MAR 2 ( Additional Tests: PQ )

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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 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.