



# OIL ANALYSIS REPORT

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

Machine Id  
**L14-8124 Port Capstan**  
 Component  
**Gearbox**  
 Fluid  
**PETRO CANADA ENVIRON AW 32 (100 LTR)**

## RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

## WEAR

Nickel ppm levels are abnormal.

## CONTAMINATION

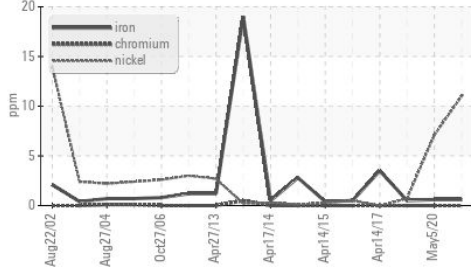
There is no indication of any contamination in the oil.

## FLUID CONDITION

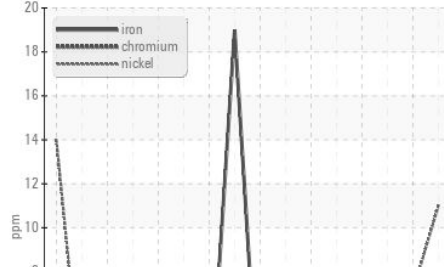
The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0668916</b>	WC0341487	WC66001648
Sample Date		Client Info		<b>04 May 2024</b>	05 May 2020	26 Apr 2017
Machine Age	hrs	Client Info		<b>125</b>	124	121
Oil Age	hrs	Client Info		<b>125</b>	12	8
Filter Age	hrs	Client Info		<b>125</b>	12	8
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL
PQ		ASTM D8184*		<b>0</b>	0	9
Iron	ppm	ASTM D5185(m)	>150	<b>&lt;1</b>	<1	<1
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>10	<b>▲ 11</b>	7	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Lead	ppm	ASTM D5185(m)	>65	<b>1</b>	2	<1
Copper	ppm	ASTM D5185(m)	>80	<b>8</b>	6	1
Tin	ppm	ASTM D5185(m)	>8	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
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
Sodium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Boron	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	0
Calcium	ppm	ASTM D5185(m)	0	<b>2</b>	2	4
Phosphorus	ppm	ASTM D5185(m)	650	<b>427</b>	457	390
Zinc	ppm	ASTM D5185(m)	0	<b>69</b>	71	58
Sulfur	ppm	ASTM D5185(m)	1280	<b>973</b>	1075	876
Acid Number (AN)	mg KOH/g	ASTM D974*	0.11	<b>0.08</b>	0.10	0.146
Visc @ 40°C	cSt	ASTM D7279(m)	31.7	<b>32.7</b>	32.6	32.8

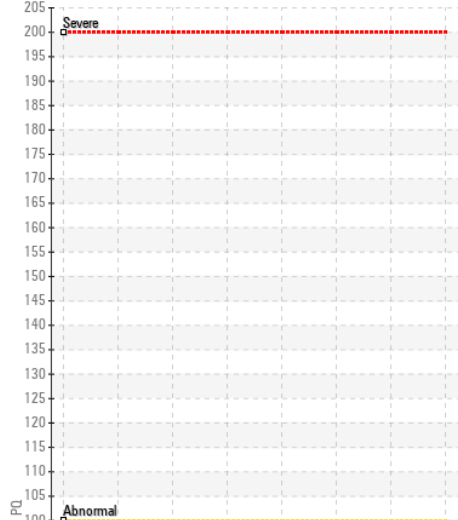
▲ Ferrous Alloys



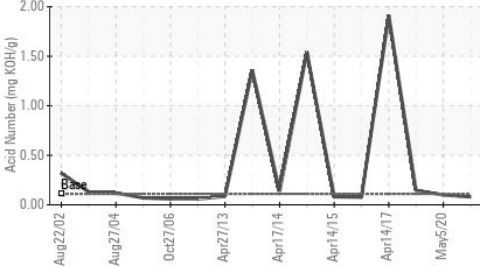
▲ Ferrous Alloys



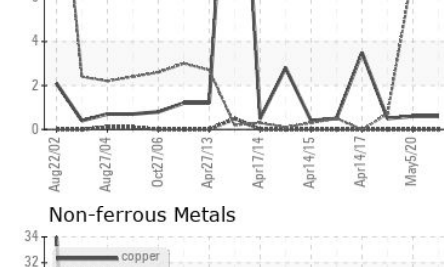
PQ



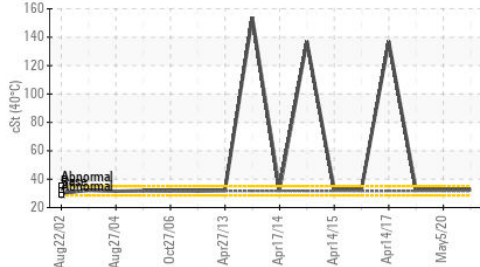
Acid Number



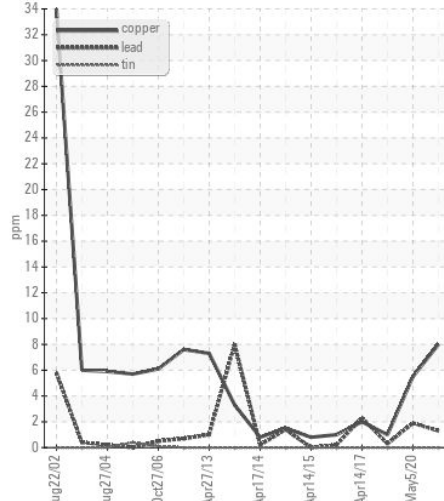
Acid Number



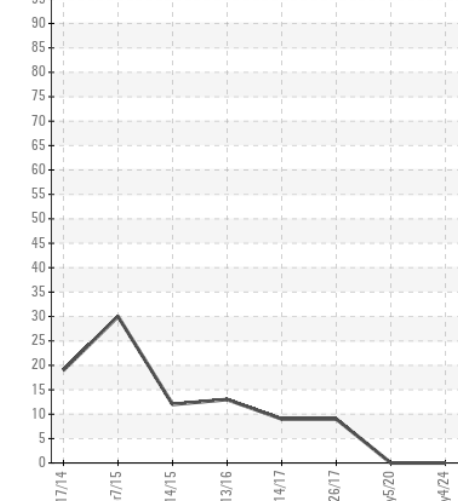
Viscosity @ 40°C



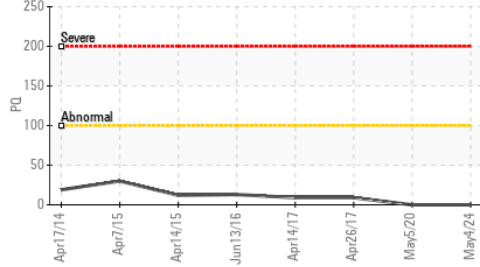
Non-ferrous Metals



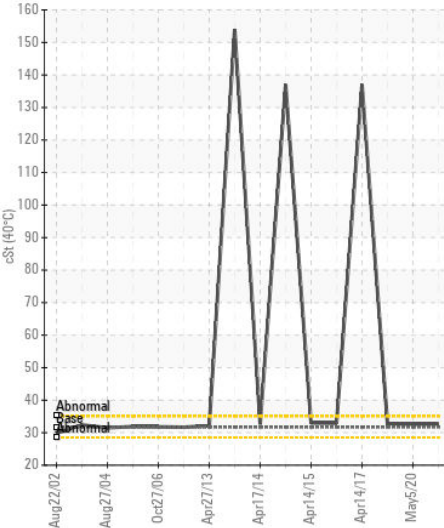
PQ



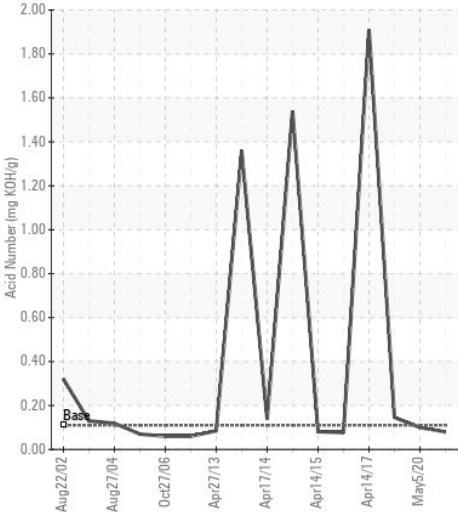
PQ



Viscosity @ 40°C



Acid Number



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0668916  
**Lab Number** : 02639616  
**Unique Number** : 5788778  
**Test Package** : MAR 2

**Received** : 04 Jun 2024  
**Tested** : 05 Jun 2024  
**Diagnosed** : 06 Jun 2024 - Kevin Marson

**CANADIAN COAST GUARD**  
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 CA L7R 4A6  
 Contact: Laurie Bosley  
 Laurie.Bosley@dfo-mpo.gc.ca

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.

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