



OIL ANALYSIS REPORT

WEAR	MARGINAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
12B05#01B02 - Port Motor Bearings
 Component
Front Bearing
 Fluid
PETRO CANADA HYDREX AW 100 (38 LTR)

RECOMMENDATION

We recommend an early resample to monitor this condition.

WEAR

Copper ppm levels are marginal. All other component wear rates are normal.

CONTAMINATION

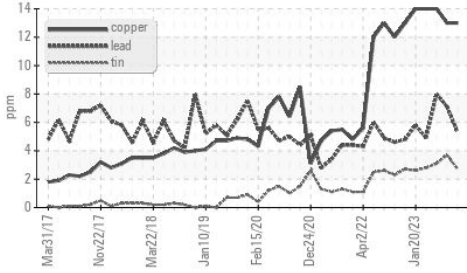
There is no indication of any contamination in the oil.

FLUID CONDITION

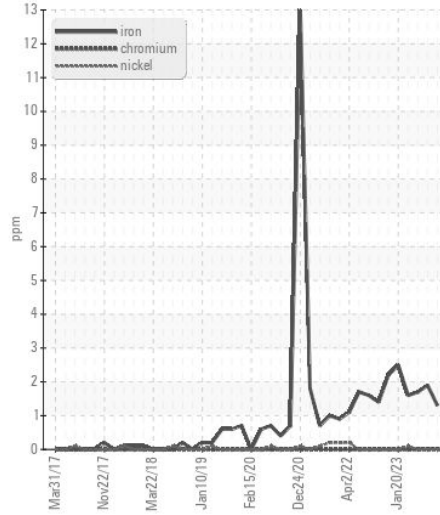
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0839655	WC0747587	WC0747586
Sample Date		Client Info		30 Apr 2024	12 Feb 2024	11 Feb 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	24	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		None	None	None
Sample Status				MARGINAL	MARGINAL	MARGINAL
PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>20	1	2	2
Chromium	ppm	ASTM D5185(m)	>2	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>5	0	<1	<1
Lead	ppm	ASTM D5185(m)	>25	5	7	8
Copper	ppm	ASTM D5185(m)	>5	▲ 13	▲ 13	▲ 14
Tin	ppm	ASTM D5185(m)	>15	3	4	3
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>15	9	7	9
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Boron	ppm	ASTM D5185(m)	0	<1	<1	<1
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	0	<1	<1	<1
Calcium	ppm	ASTM D5185(m)	50	69	71	73
Phosphorus	ppm	ASTM D5185(m)	330	325	328	329
Zinc	ppm	ASTM D5185(m)	430	403	407	404
Sulfur	ppm	ASTM D5185(m)	760	949	803	804
Acid Number (AN)	mg KOH/g	ASTM D974*	0.60	0.36	0.36	0.34
Visc @ 40°C	cSt	ASTM D7279(m)	101	102	101	101

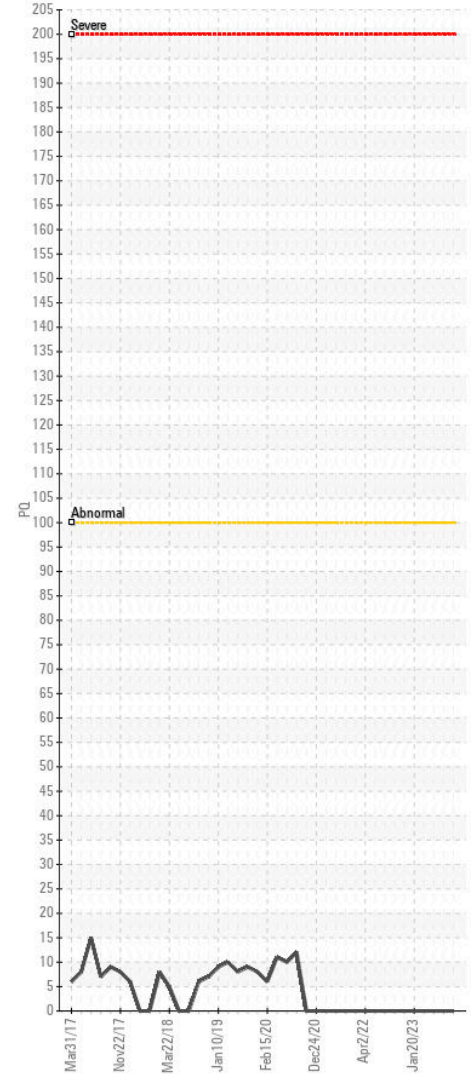
▲ Non-ferrous Metals



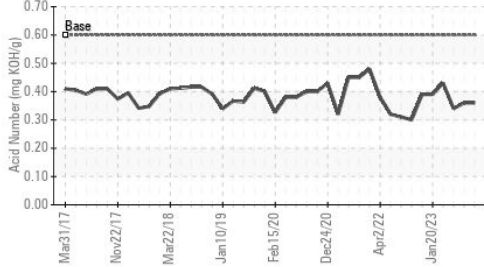
Ferrous Alloys



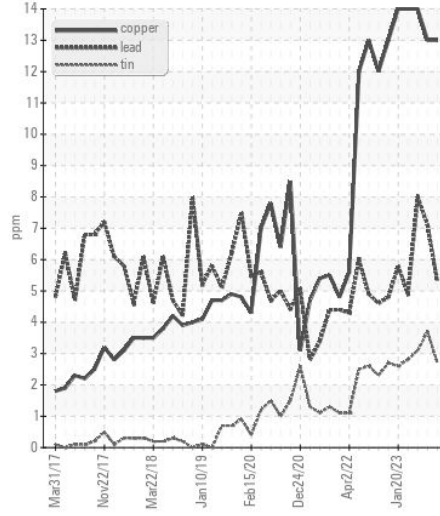
PQ



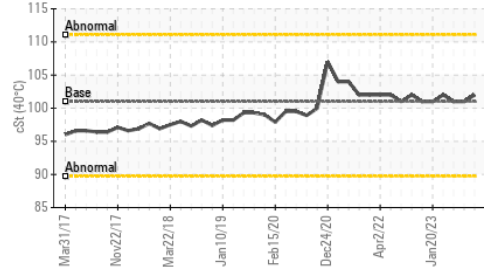
Acid Number



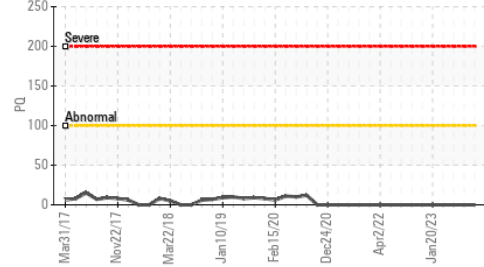
▲ Non-ferrous Metals



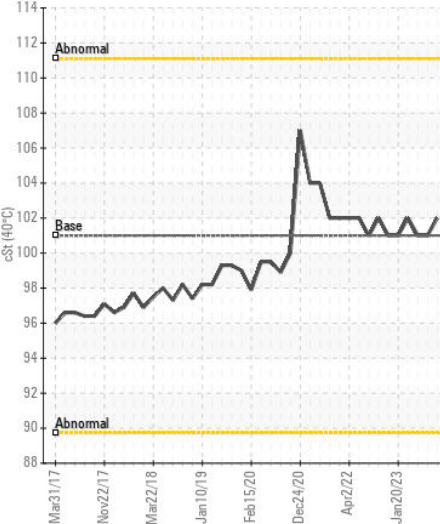
Viscosity @ 40°C



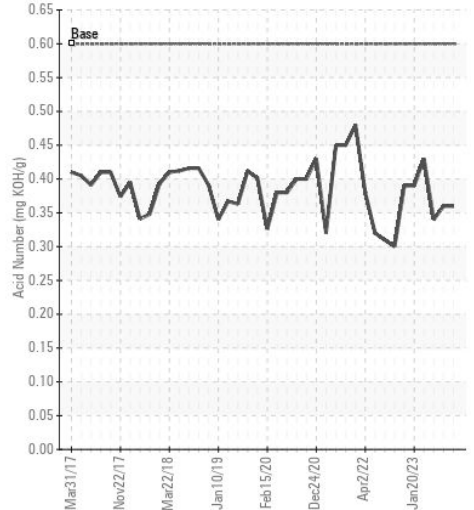
PQ



Viscosity @ 40°C



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0839655
Lab Number : 02635415
Unique Number : 5776568
Test Package : MAR 2

Received : 14 May 2024
Tested : 15 May 2024
Diagnosed : 15 May 2024 - Kevin Marson

CANADIAN COAST GUARD
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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.