



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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0747587	WC0747586	WC0742532
Sample Date		Client Info		12 Feb 2024	11 Feb 2024	12 Sep 2023
Machine Age	hrs	Client Info		0	0	36346
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		24	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		None	None	None
Sample Status				MARGINAL	MARGINAL	MARGINAL

WEAR

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

PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>20	2	2	2
Chromium	ppm	ASTM D5185(m)	>2	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>5	<1	<1	0
Lead	ppm	ASTM D5185(m)	>25	7	8	5
Copper	ppm	ASTM D5185(m)	>5	▲ 13	▲ 14	▲ 14
Tin	ppm	ASTM D5185(m)	>15	4	3	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

CONTAMINATION

There is no indication of any contamination in the oil.

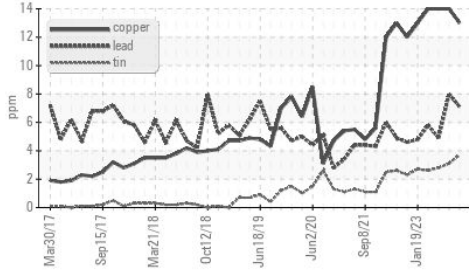
Silicon	ppm	ASTM D5185(m)	>15	7	9	12
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

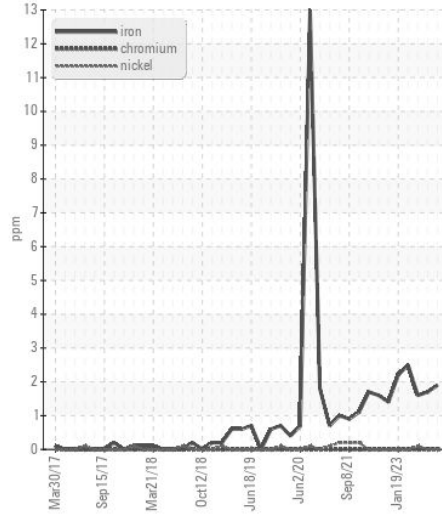
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

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	<1
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	71	73	73
Phosphorus	ppm	ASTM D5185(m)	330	328	329	324
Zinc	ppm	ASTM D5185(m)	430	407	404	413
Sulfur	ppm	ASTM D5185(m)	760	803	804	898
Acid Number (AN)	mg KOH/g	ASTM D974*	0.60	0.36	0.34	0.43
Visc @ 40°C	cSt	ASTM D7279(m)	101	101	101	102

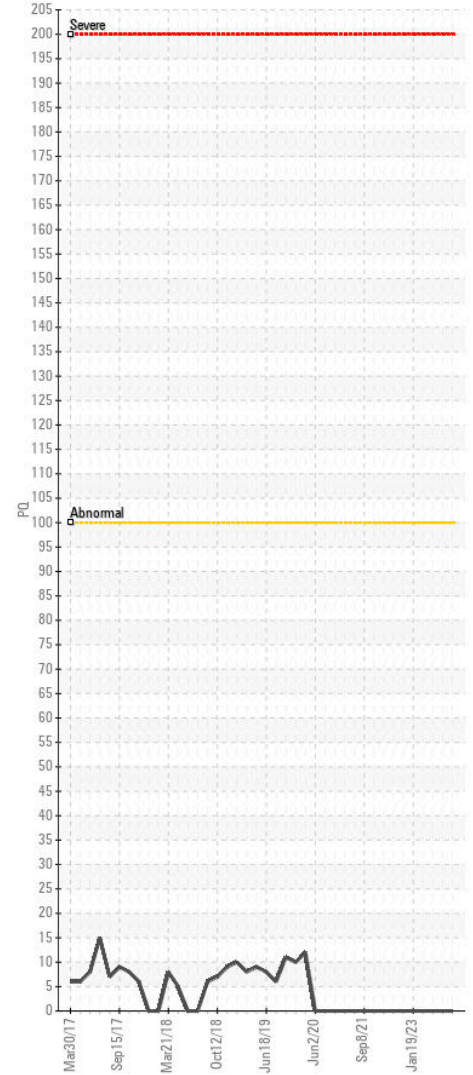
▲ Non-ferrous Metals



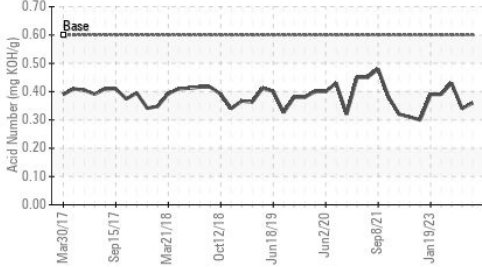
Ferrous Alloys



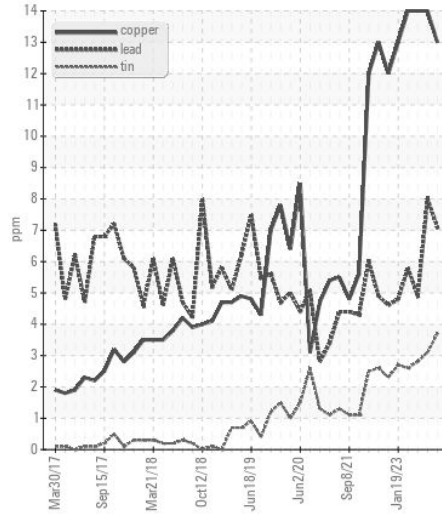
PQ



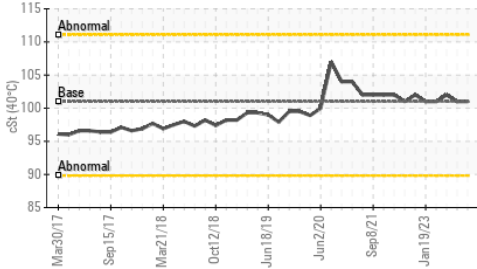
Acid Number



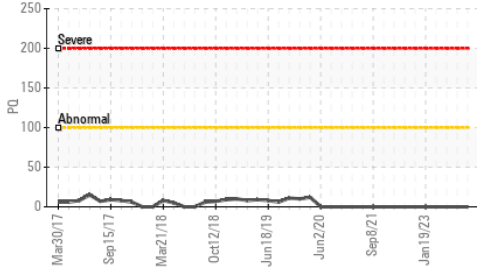
▲ Non-ferrous Metals



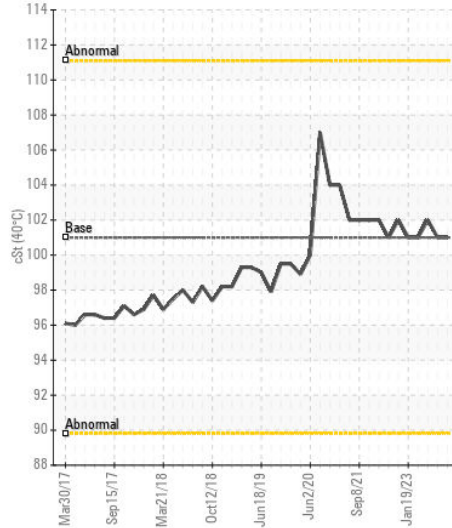
Viscosity @ 40°C



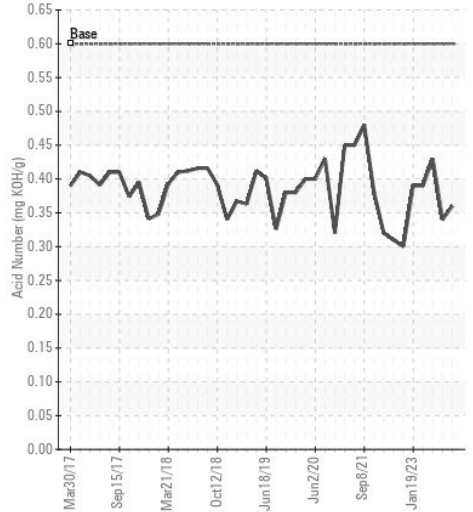
PQ



Viscosity @ 40°C



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0747587
Lab Number : 02616661
Unique Number : 5733771
Test Package : MAR 2

Received : 20 Feb 2024
Tested : 21 Feb 2024
Diagnosed : 21 Feb 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.