



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
12G02#01A
Component
Port Steering
Fluid
PETRO CANADA HYDREX MV 32 (550 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0747558	WC0742533	WC0747594
Sample Date		Client Info		12 Mar 2024	26 Jul 2023	02 Mar 2023
Machine Age	hrs	Client Info		17001	15571	14795
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Filter Changed		Client Info		N/A	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>60	2	2	2
Chromium	ppm	ASTM D5185(m)	>12	0	0	0
Nickel	ppm	ASTM D5185(m)	>6	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>4	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>12	0	0	0
Copper	ppm	ASTM D5185(m)	>30	4	4	4
Tin	ppm	ASTM D5185(m)		0	0	0
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

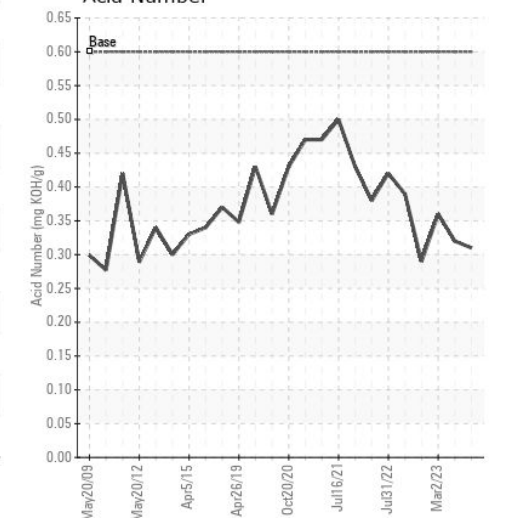
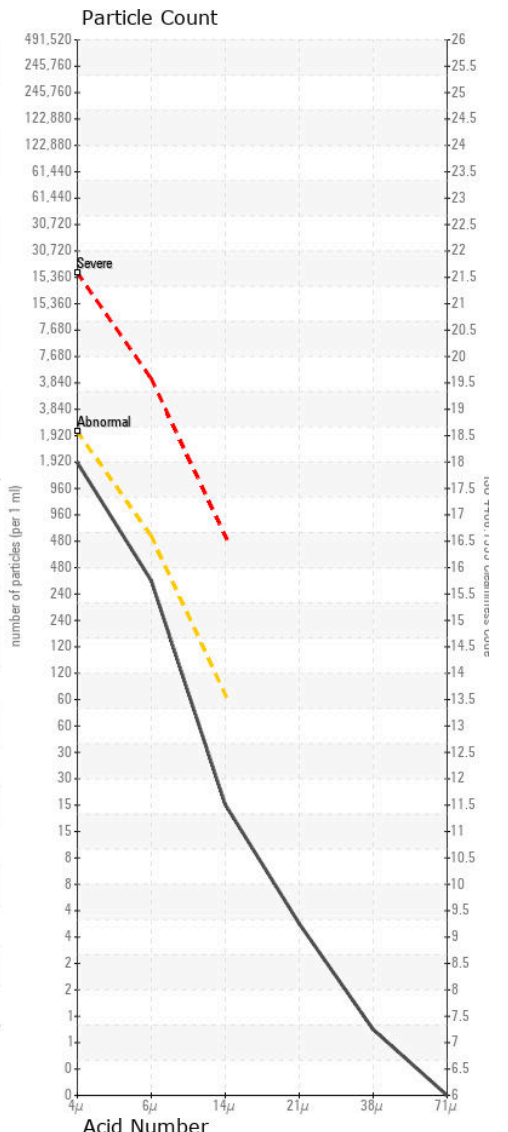
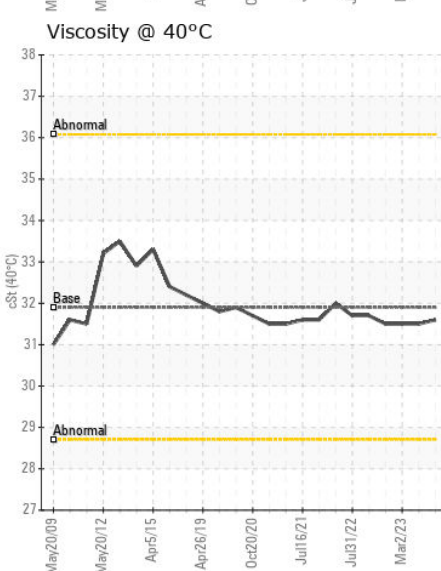
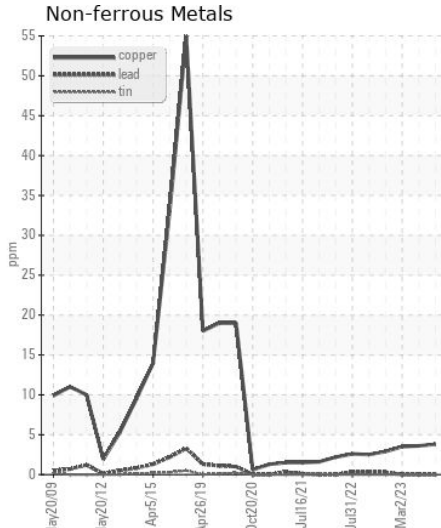
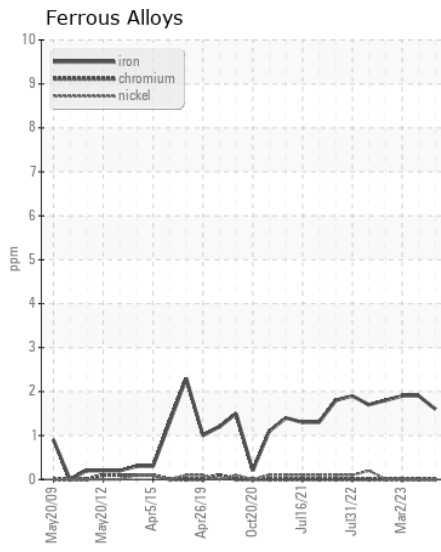
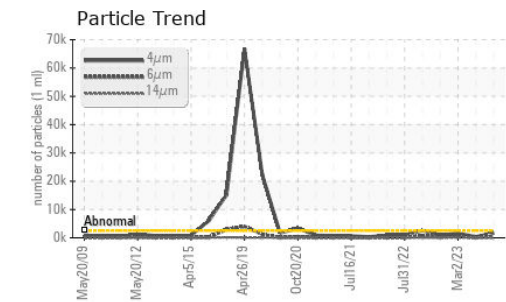
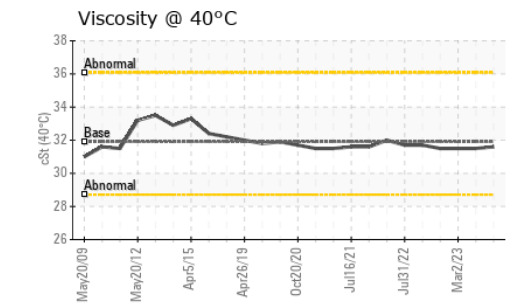
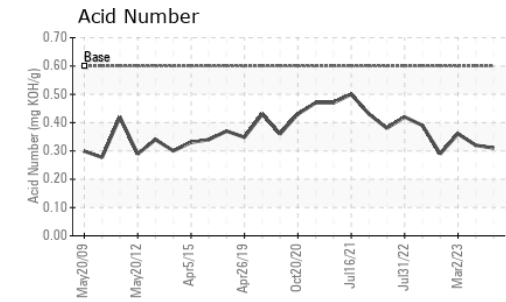
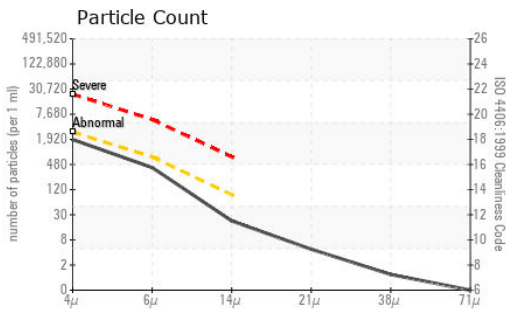
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>10	0	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	1	<1	<1
Water		WC Method		NEG	NEG	NEG
Particles >4µm		ASTM D7647	>2500	1668	416	1613
Particles >6µm		ASTM D7647	>640	356	91	585
Particles >14µm		ASTM D7647	>80	19	10	70
Particles >21µm		ASTM D7647	>20	4	3	19
Particles >38µm		ASTM D7647	>4	1	1	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	18/16/11	16/14/10	18/16/13
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*		NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Boron	ppm	ASTM D5185(m)	0	0	<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)	1	0	0	0
Magnesium	ppm	ASTM D5185(m)	0	<1	<1	0
Calcium	ppm	ASTM D5185(m)	50	53	53	55
Phosphorus	ppm	ASTM D5185(m)	330	323	362	360
Zinc	ppm	ASTM D5185(m)	430	399	421	411
Sulfur	ppm	ASTM D5185(m)	760	793	824	845
Acid Number (AN)	mg KOH/g	ASTM D974*	0.60	0.31	0.32	0.36
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	31.6	31.5	31.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0747558
Lab Number : 02635287
Unique Number : 5776440
Test Package : MAR 2
Received : 14 May 2024
Tested : 15 May 2024
Diagnosed : 15 May 2024 - Wes Davis

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.