



OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
17A02D02 - Anchor Windlass Power Pack

Component
Hydraulic System

Fluid
PETRO CANADA HYDREX MV 32 (260 LTR)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0747563	WC0747567	WC0602847
Sample Date		Client Info		29 Mar 2024	01 Apr 2023	27 Mar 2022
Machine Age	hrs	Client Info		0	1469	1428
Oil Age	hrs	Client Info		0	76	0
Filter Age	hrs	Client Info		0	21	20
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

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

Iron	ppm	ASTM D5185(m)	>20	<1	<1	0
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>10	0	<1	0
Lead	ppm	ASTM D5185(m)	>20	2	<1	2
Copper	ppm	ASTM D5185(m)	>20	41	16	10
Tin	ppm	ASTM D5185(m)	>10	0	<1	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

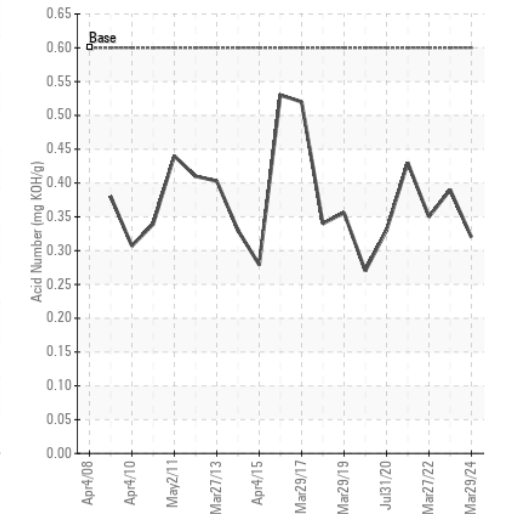
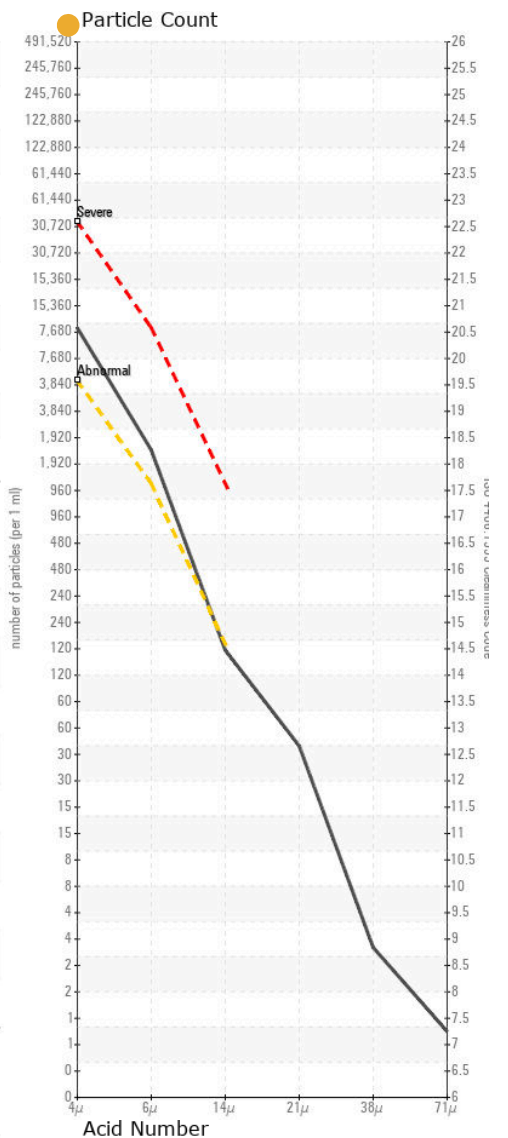
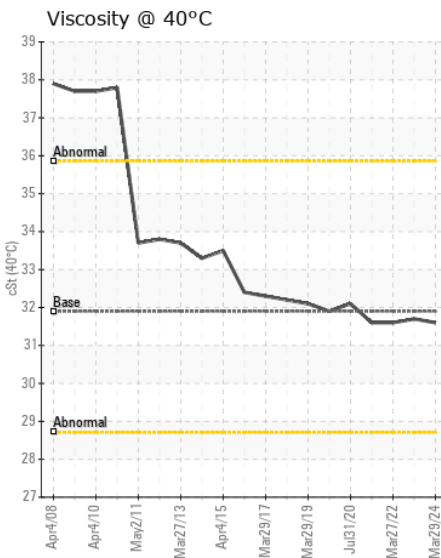
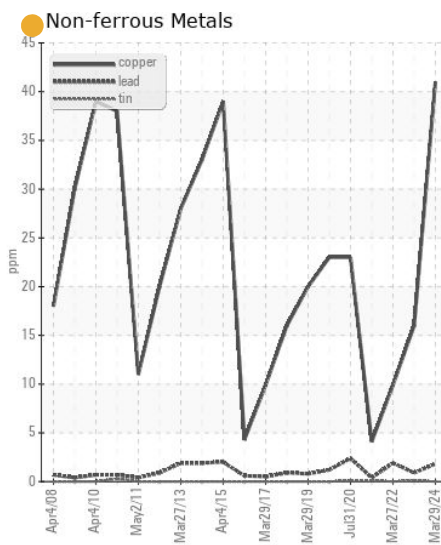
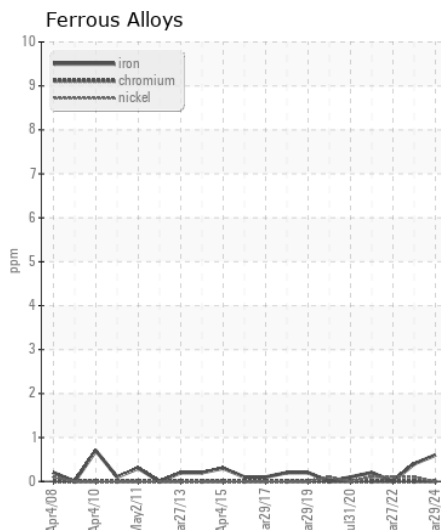
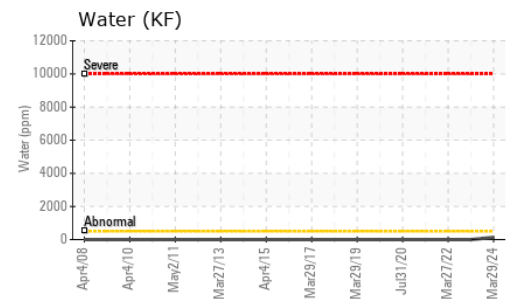
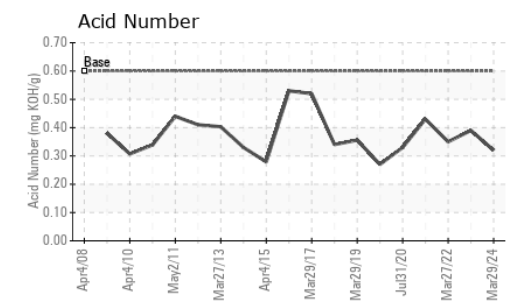
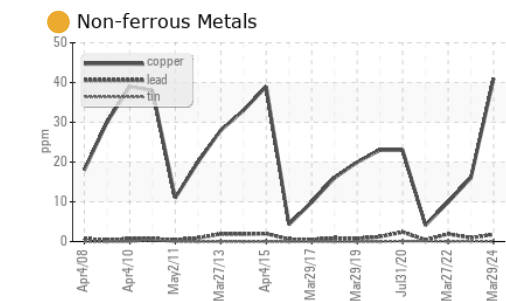
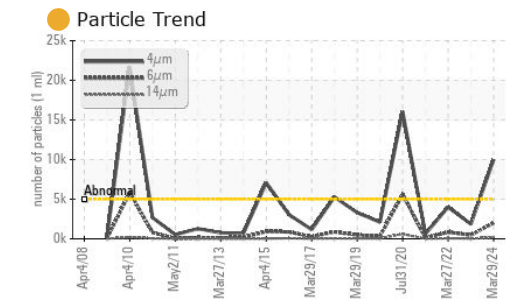
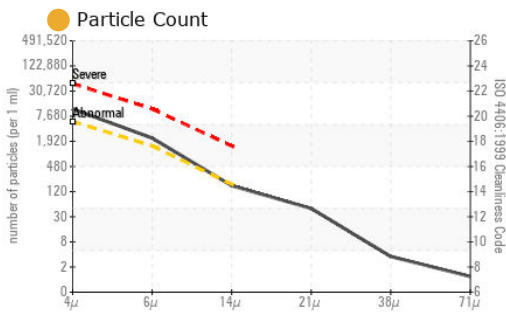
There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

Silicon	ppm	ASTM D5185(m)	>15	0	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
Water	%	ASTM D6304*	>0.05	0.013	---	---
ppm Water	ppm	ASTM D6304*	>500	134	---	---
Particles >4µm		ASTM D7647	>5000	9974	1863	4009
Particles >6µm		ASTM D7647	>1300	2016	468	846
Particles >14µm		ASTM D7647	>160	147	35	64
Particles >21µm		ASTM D7647	>40	42	7	14
Particles >38µm		ASTM D7647	>10	3	0	1
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/18/14	18/16/12	19/17/13
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	.2%	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	0
Boron	ppm	ASTM D5185(m)	0	0	0	<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	<1
Calcium	ppm	ASTM D5185(m)	50	30	53	50
Phosphorus	ppm	ASTM D5185(m)	330	294	328	307
Zinc	ppm	ASTM D5185(m)	430	359	376	380
Sulfur	ppm	ASTM D5185(m)	760	733	792	730
Acid Number (AN)	mg KOH/g	ASTM D974*	0.60	0.32	0.39	0.35
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	31.6	31.7	31.6



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0747563
Lab Number : 02628171
Unique Number : 5761303
Test Package : MAR 2 (Additional Tests: KF)

Received : 11 Apr 2024
Tested : 12 Apr 2024
Diagnosed : 12 Apr 2024 - Kevin Marson

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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