IND II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
1000447081 - BONE CANNON AMR 2318-250
Component
Hydraulic System
Fluid
PETRO CANADA PURITY FG AW HYDRAULIC 46 (--- GAL)

RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

WEAR

All component wear rates are normal.

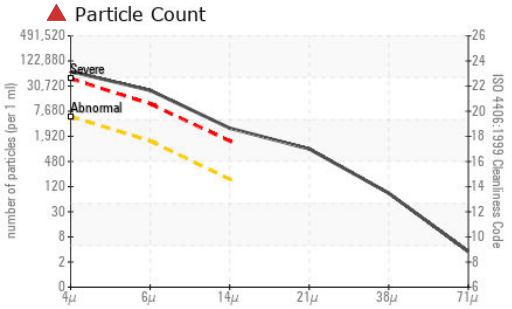
CONTAMINATION

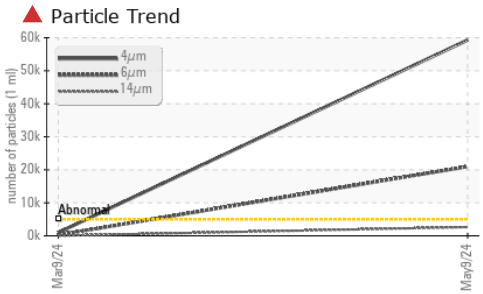
There is a high amount of particulates (2 to 100 microns in size) present in the oil. The water content is negligible.

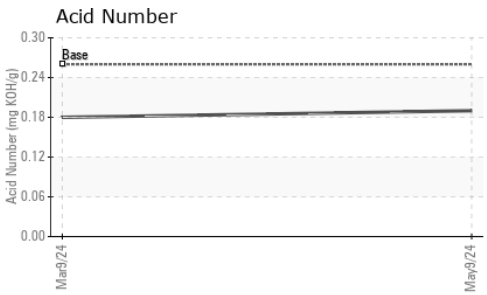
FLUID CONDITION

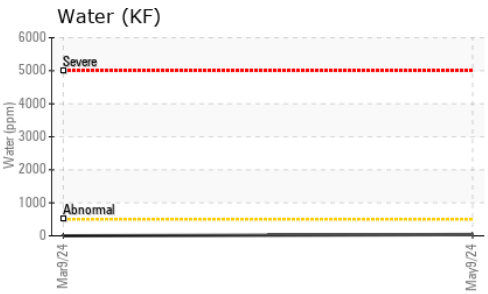
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

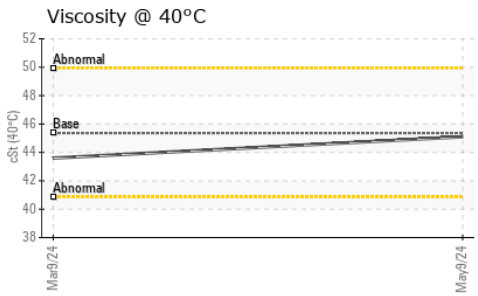
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0938232	WC0835760	---
Sample Date		Client Info		09 May 2024	09 Mar 2024	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Filtered	Filtered	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				SEVERE	NORMAL	---
Iron	ppm	ASTM D5185(m)	>20	<1	<1	---
Chromium	ppm	ASTM D5185(m)	>20	0	0	---
Nickel	ppm	ASTM D5185(m)	>20	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	---
Lead	ppm	ASTM D5185(m)	>20	0	<1	---
Copper	ppm	ASTM D5185(m)	>20	<1	12	---
Tin	ppm	ASTM D5185(m)	>20	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185(m)	>15	0	<1	---
Potassium	ppm	ASTM D5185(m)	>20	0	<1	---
Water	%	ASTM D6304*	>0.05	0.003	---	---
ppm Water	ppm	ASTM D6304*	>500	39	---	---
Particles >4µm		ASTM D7647	>5000	▲ 59292	971	---
Particles >6µm		ASTM D7647	>1300	▲ 21002	245	---
Particles >14µm		ASTM D7647	>160	▲ 2635	21	---
Particles >21µm		ASTM D7647	>40	▲ 839	6	---
Particles >38µm		ASTM D7647	>10	▲ 74	2	---
Particles >71µm		ASTM D7647	>3	3	1	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 23/22/19	17/15/12	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.05	.2%	NEG	---
Sodium	ppm	ASTM D5185(m)		0	0	---
Boron	ppm	ASTM D5185(m)	0	<1	0	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0	0	0	---
Manganese	ppm	ASTM D5185(m)	0	0	0	---
Magnesium	ppm	ASTM D5185(m)	0	0	<1	---
Calcium	ppm	ASTM D5185(m)	0	0	5	---
Phosphorus	ppm	ASTM D5185(m)	450	328	273	---
Zinc	ppm	ASTM D5185(m)	0	1	84	---
Sulfur	ppm	ASTM D5185(m)	450	373	1901	---
Acid Number (AN)	mg KOH/g	ASTM D974*	0.26	0.19	0.18	---
Visc @ 40°C	cSt	ASTM D7279(m)	45.36	45.1	43.6	---

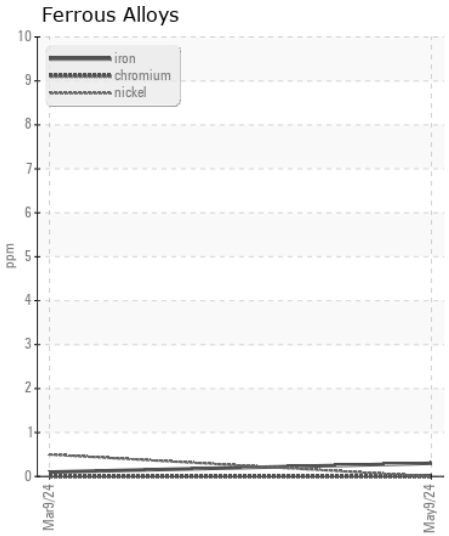


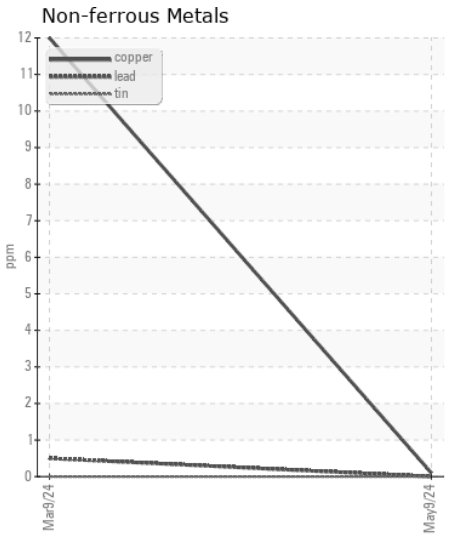


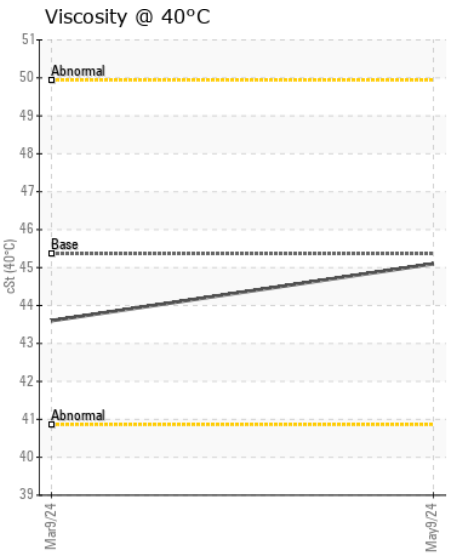


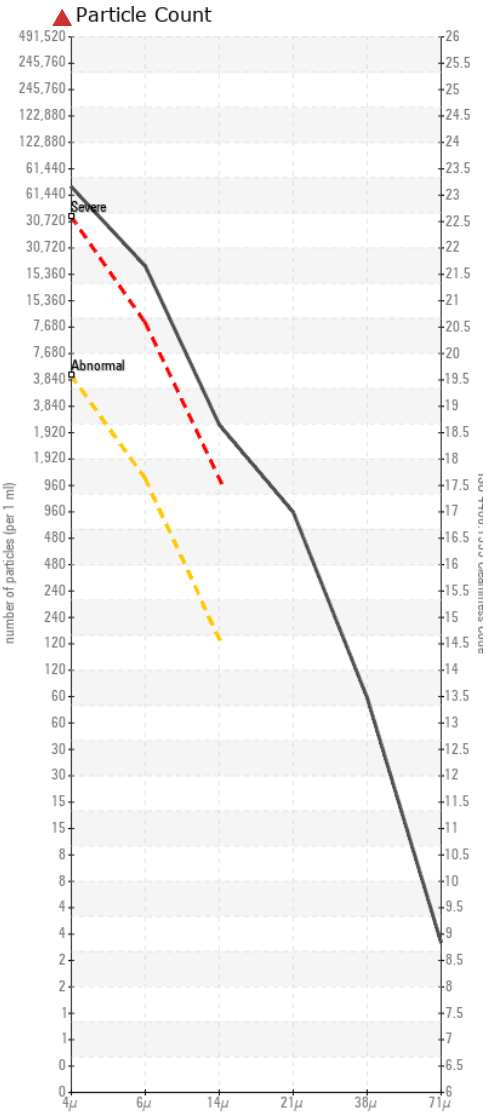


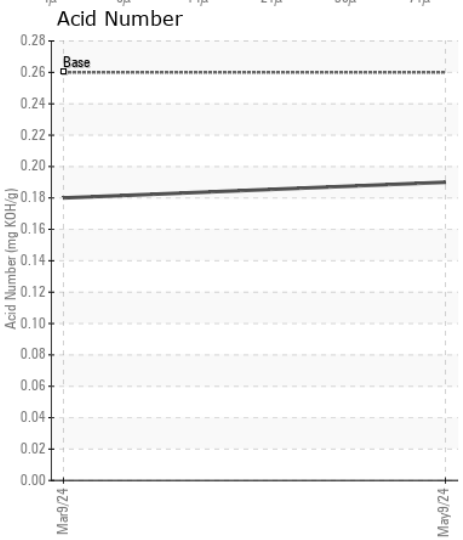












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0938232 **Received** : 15 May 2024
Lab Number : 02635633 **Tested** : 16 May 2024
Unique Number : 5776786 **Diagnosed** : 16 May 2024 - Wes Davis
Test Package : IND 2 (Additional Tests: KF)

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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