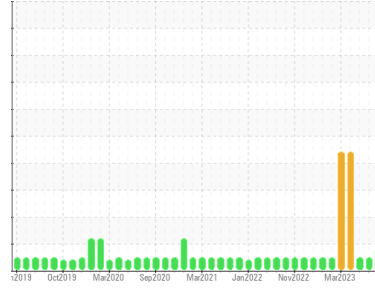


Area
TEAM 15
Machine Id
156400
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX AW 46 (160 GAL)



DIAGNOSIS

Recommendation

We recommend an early resample to monitor this condition. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 2 test kits, this testkit includes Particle Count to determine the ISO cleanliness of the fluid.

Wear

Copper ppm levels are abnormal. Oil cooler core leaching or motor piston wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history 1	history 2
Sample Number	Client Info	PC0074835	PC0070215	PC0069718
Sample Date	Client Info	20 Jun 2023	25 Apr 2023	29 Mar 2023
Machine Age	mths Client Info	0	0	0
Oil Age	mths Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history 1	history 2
Iron ppm ASTM D5185(m)	>20	2	<1	<1
Chromium ppm ASTM D5185(m)	>20	<1	0	0
Nickel ppm ASTM D5185(m)	>20	0	0	0
Titanium ppm ASTM D5185(m)		0	0	0
Silver ppm ASTM D5185(m)		0	0	0
Aluminum ppm ASTM D5185(m)	>20	0	0	<1
Lead ppm ASTM D5185(m)	>20	1	<1	0
Copper ppm ASTM D5185(m)	>20	▲ 26	4	4
Tin ppm ASTM D5185(m)	>20	0	0	0
Antimony ppm ASTM D5185(m)		0	0	0
Vanadium ppm ASTM D5185(m)		0	0	0
Beryllium ppm ASTM D5185(m)		0	0	0
Cadmium ppm ASTM D5185(m)		1	0	0

ADDITIVES

method	limit/base	current	history 1	history 2
Boron ppm ASTM D5185(m)	0	<1	<1	0
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	0	<1
Calcium ppm ASTM D5185(m)	50	20	51	52
Phosphorus ppm ASTM D5185(m)	330	344	371	379
Zinc ppm ASTM D5185(m)	430	341	427	446
Sulfur ppm ASTM D5185(m)	760	707	777	809
Lithium ppm ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

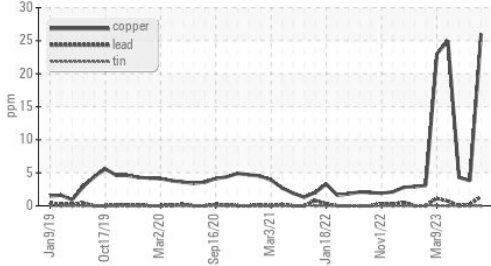
method	limit/base	current	history 1	history 2
Silicon ppm ASTM D5185(m)	>15	<1	0	0
Sodium ppm ASTM D5185(m)		12	1	1
Potassium ppm ASTM D5185(m)	>20	1	0	0

VISUAL

method	limit/base	current	history 1	history 2
White Metal scalar Visual*	NONE	NONE	NONE	NONE
Yellow Metal scalar Visual*	NONE	NONE	NONE	NONE
Precipitate scalar Visual*	NONE	NONE	NONE	NONE
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*	>0.05	NEG	NEG	NEG
Free Water scalar Visual*		NEG	NEG	NEG

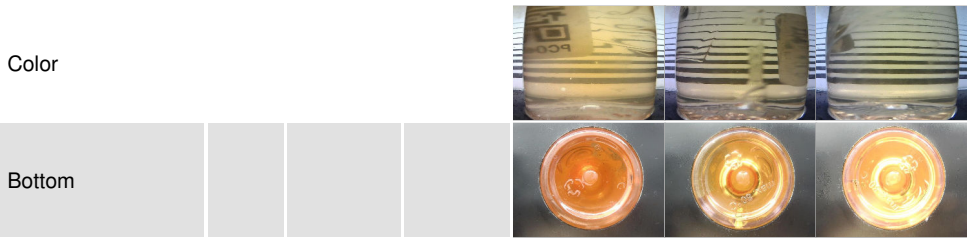
OIL ANALYSIS REPORT

▲ Non-ferrous Metals

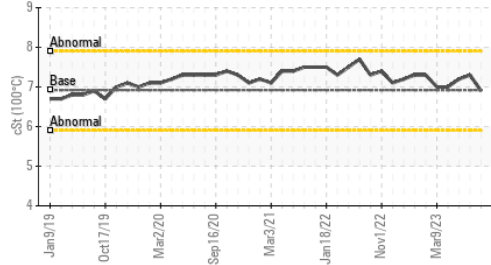


FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	46.4	45.4	45.3	45.5
Visc @ 100°C	cSt	ASTM D7279(m)	6.92	6.9	7.3	7.2
Viscosity Index (VI)	Scale	ASTM D2270*	104	107	123	118

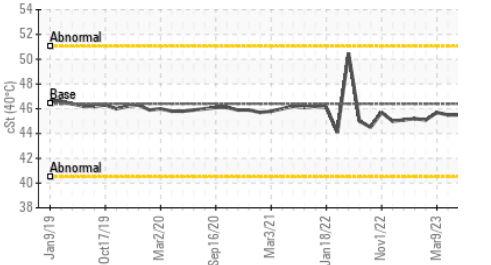
SAMPLE IMAGES		method	limit/base	current	history 1	history 2
---------------	--	--------	------------	---------	-----------	-----------



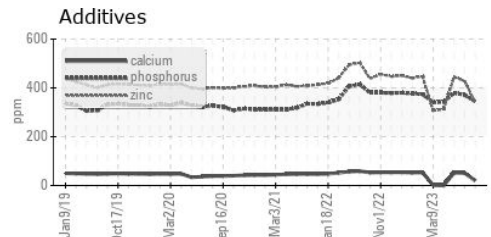
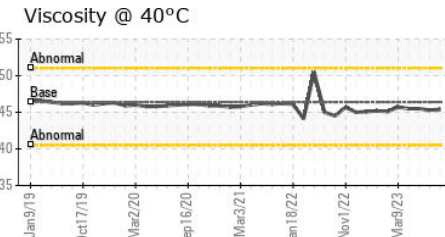
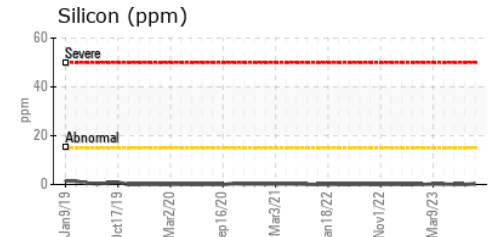
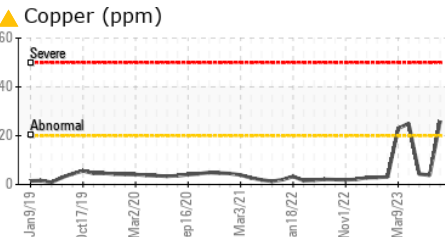
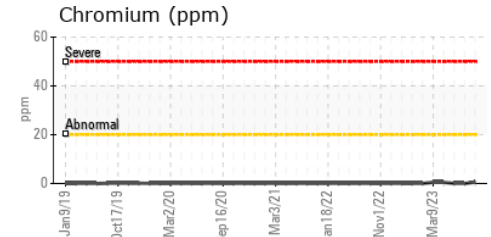
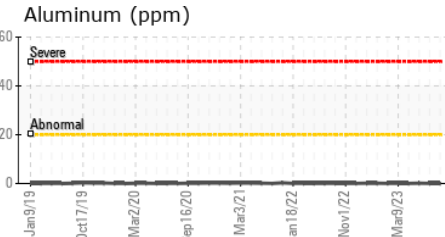
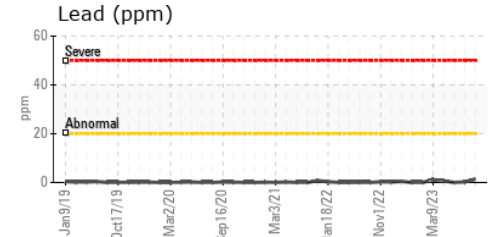
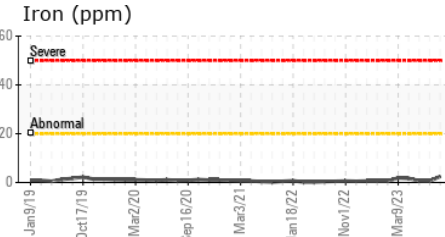
Viscosity @ 100°C



Viscosity @ 40°C



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0074835 **Received** : 04 Jul 2023
Lab Number : **02567816** **Diagnosed** : 05 Jul 2023
Unique Number : 5604862 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KV100, VI)

Domtar Inc.
 Box 3001, 1 Duke Street
 Dryden, ON
 CA P8N 2Z7
 Contact: Yvon St. Laurent
 yvon.stlaurent@domtar.com
 T: (807)223-9838
 F: (807)223-9176

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.