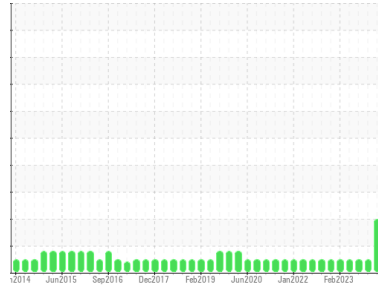


OIL ANALYSIS REPORT

Area
TEAM 3
Machine Id
166181
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX AW 46 (11 GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation
We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

Contamination
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition
The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0078749	PC0076972	PC0074798
Sample Date	Client Info	28 May 2024	14 Jan 2024	08 Aug 2023
Machine Age	mths	Client Info	0	0
Oil Age	mths	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2	
Water	WC Method	>0.05	NEG	NEG	NEG

WEAR METALS

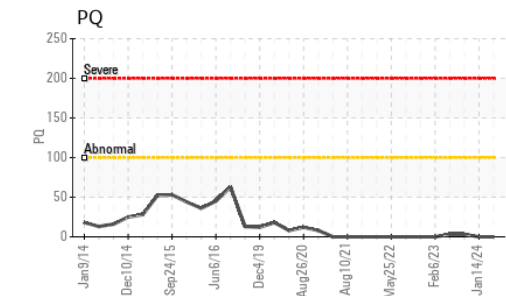
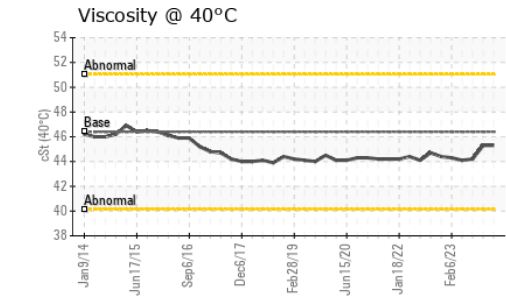
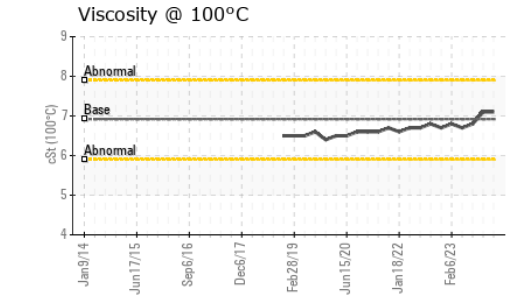
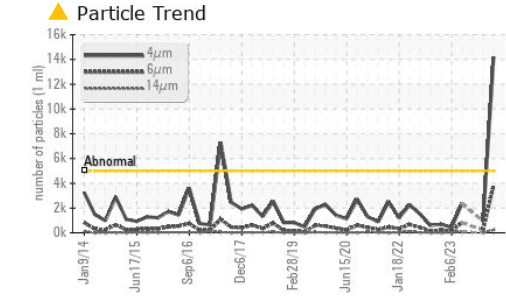
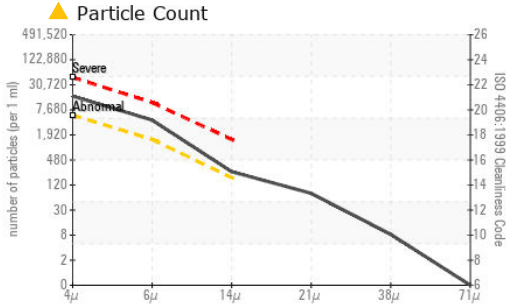
method	limit/base	current	history1	history2	
PQ	ASTM D8184*	0	0	3	
Iron	ppm	ASTM D5185(m) >20	27	32	41
Chromium	ppm	ASTM D5185(m) >20	0	0	<1
Nickel	ppm	ASTM D5185(m) >20	0	<1	0
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m)	0	0	0
Aluminum	ppm	ASTM D5185(m) >20	0	<1	<1
Lead	ppm	ASTM D5185(m) >20	0	0	<1
Copper	ppm	ASTM D5185(m) >20	<1	<1	<1
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)	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m) 0	0	0	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	<1	0	<1
Magnesium	ppm	ASTM D5185(m) 0	1	1	1
Calcium	ppm	ASTM D5185(m) 50	34	36	29
Phosphorus	ppm	ASTM D5185(m) 330	343	353	349
Zinc	ppm	ASTM D5185(m) 430	413	412	384
Sulfur	ppm	ASTM D5185(m) 760	1966	2305	2407
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >15	0	<1	<1
Sodium	ppm	ASTM D5185(m)	2	1	2
Potassium	ppm	ASTM D5185(m) >20	<1	<1	<1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078749
Lab Number : 02640504
Unique Number : 5789666
Test Package : MOB 2 (Additional Tests: KV100, PQ, VI)
Received : 07 Jun 2024
Tested : 07 Jun 2024
Diagnosed : 10 Jun 2024 - Kevin Marson

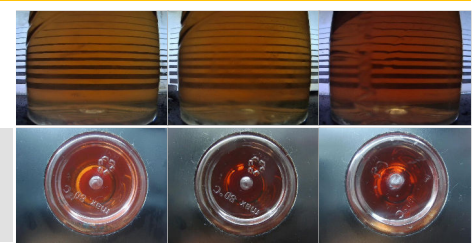
To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 14194	923	---
Particles >6µm	ASTM D7647	>1300	▲ 3803	212	---
Particles >14µm	ASTM D7647	>160	● 221	12	---
Particles >21µm	ASTM D7647	>40	● 67	4	---
Particles >38µm	ASTM D7647	>10	7	1	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/19/15	17/15/11	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
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	NEG	NEG
Free Water	scalar	Visual*	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46.4	45.3	44.2
Visc @ 100°C	cSt	ASTM D7279(m)	6.92	7.1	6.8
Viscosity Index (VI)	Scale	ASTM D2270*	104	115	108

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



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