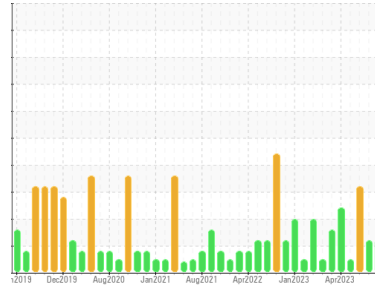


PROBLEM SUMMARY

Sample Rating Trend



ISO

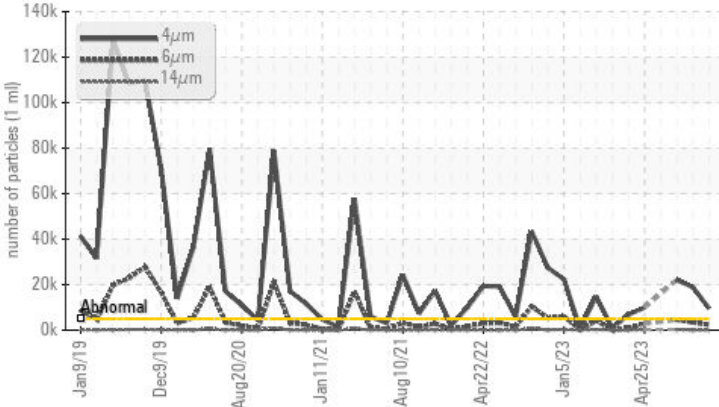


Area
TEAM 15
Machine Id
156319

Component
Hydraulic System
Fluid
PETRO CANADA HYDREX AW 46 (110 GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>5000	▲ 9580	▲ 18863	▲ 22075
Particles >6µm	ASTM D7647	>1300	▲ 2357	▲ 3426	▲ 4575
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 20/18/13	▲ 21/19/12	▲ 22/19/15

Customer Id: CANDRY
Sample No.: PC0069893
Lab Number: 02585871
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Wes Davis +1 905-569-8600 x223
wesd@wearcheck.ca

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

23 Aug 2023 Diag: Wes Davis

ISO



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

view report



19 Jul 2023 Diag: Kevin Marson

VISUAL METAL



We advise that you check for visible metal particles in the oil. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Light concentration of visible metal present. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

view report



20 Jun 2023 Diag: Wes Davis

NORMAL

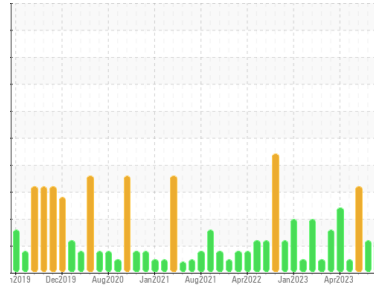


Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



Area
TEAM 15
Machine Id
156319
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX AW 46 (110 GAL)



DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0069893	PC0069839	PC0070440
Sample Date	Client Info	27 Sep 2023	23 Aug 2023	19 Jul 2023
Machine Age	days	Client Info	0	0
Oil Age	days	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ATTENTION	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185(m) >20	<1	<1	<1
Chromium ppm	ASTM D5185(m) >20	0	0	0
Nickel ppm	ASTM D5185(m) >20	<1	0	<1
Titanium ppm	ASTM D5185(m)	0	0	0
Silver ppm	ASTM D5185(m)	0	0	0
Aluminum ppm	ASTM D5185(m) >20	0	0	0
Lead ppm	ASTM D5185(m) >20	0	<1	<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	<1	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185(m) 0	<1	0	0
Barium ppm	ASTM D5185(m) 0	<1	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	0	<1	<1
Calcium ppm	ASTM D5185(m) 50	25	48	54
Phosphorus ppm	ASTM D5185(m) 330	350	383	470
Zinc ppm	ASTM D5185(m) 430	442	470	566
Sulfur ppm	ASTM D5185(m) 760	773	808	979
Lithium ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185(m) >15	<1	0	<1
Sodium ppm	ASTM D5185(m)	7	4	3
Potassium ppm	ASTM D5185(m) >20	0	<1	0

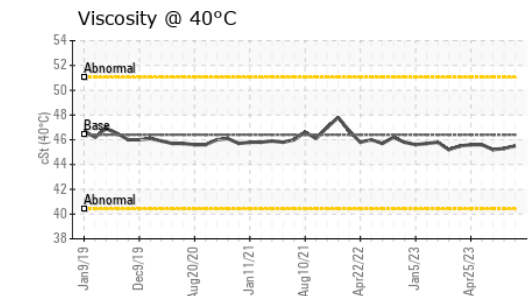
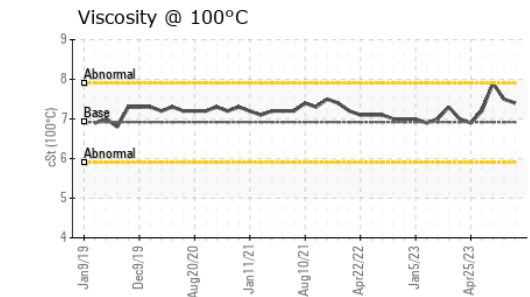
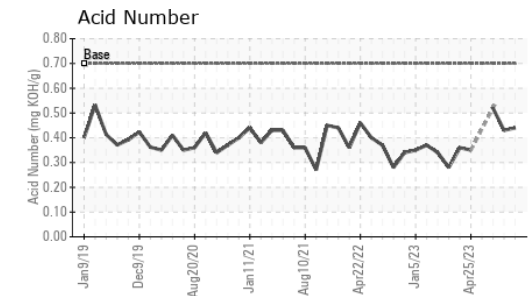
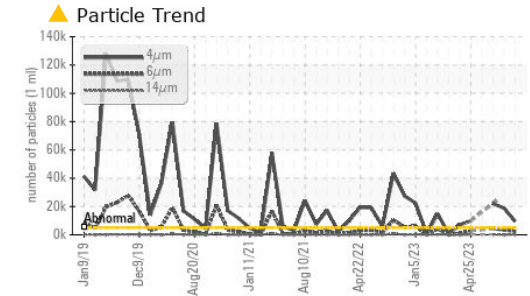
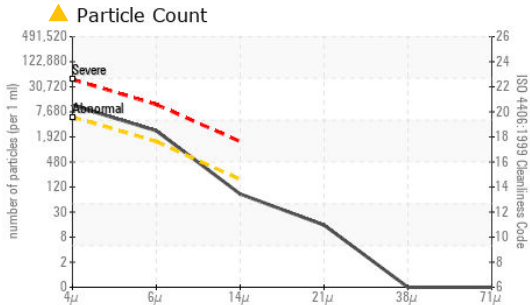
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 9580	▲ 18863	▲ 22075
Particles >6µm	ASTM D7647 >1300	▲ 2357	▲ 3426	▲ 4575
Particles >14µm	ASTM D7647 >160	72	40	▲ 280
Particles >21µm	ASTM D7647 >40	13	4	▲ 67
Particles >38µm	ASTM D7647 >10	0	0	1
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 20/18/13	▲ 21/19/12	▲ 22/19/15

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974* 0.70	0.44	0.43	0.52

OIL ANALYSIS REPORT



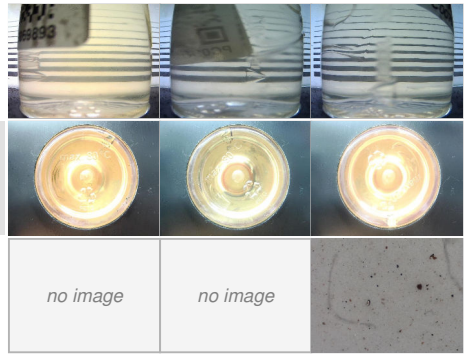
Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0069893 **Received** : 28 Sep 2023
Lab Number : 02585871 **Diagnosed** : 02 Oct 2023
Unique Number : 5654937 **Diagnostician** : Wes Davis
Test Package : IND 2 (Additional Tests: KV100, VI)

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.

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	▲ VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE
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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46.4	45.5	45.3
Visc @ 100°C	cSt	ASTM D7279(m)	6.92	7.4	7.5
Viscosity Index (VI)	Scale	ASTM D2270*	104	126	131

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
PrtFilter					



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 Dryden, ON
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