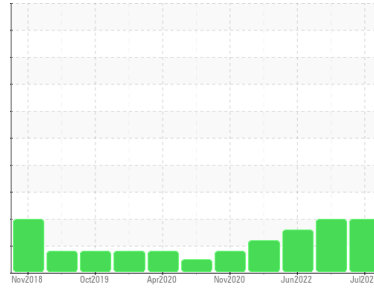




PROBLEM SUMMARY

Sample Rating Trend



ISO



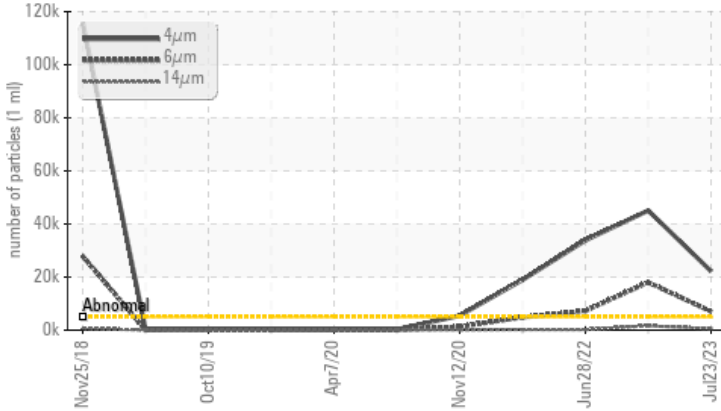
Machine Id
CENTRAL HYD

Component
Hydraulic System

Fluid
PETRO CANADA HYDREX AW 32 (--- 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			ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>5000	▲ 22199	▲ 45069	▲ 33827
Particles >6µm	ASTM D7647	>1300	▲ 7018	▲ 18045	▲ 7266
Particles >14µm	ASTM D7647	>160	▲ 558	▲ 1633	▲ 187
Particles >21µm	ASTM D7647	>40	▲ 155	▲ 345	17
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 22/20/16	▲ 23/21/18	▲ 22/20/15

Customer Id: PREORA
Sample No.: USPM5905509
Lab Number: 05905509
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

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

HISTORICAL DIAGNOSIS

05 Jul 2023 Diag: Doug Bogart

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



28 Jun 2022 Diag: Doug Bogart

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



23 Feb 2021 Diag: Jonathan Hester

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

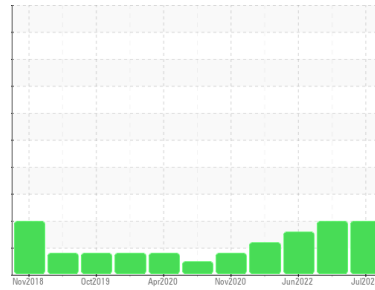
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
CENTRAL HYD

Component
Hydraulic System

Fluid
PETRO CANADA HYDREX AW 32 (--- 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 high amount of particulates 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	USPM5905509	USP243427	USP235933
Sample Date	Client Info	23 Jul 2023	05 Jul 2023	28 Jun 2022
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	<1	<1	2
Chromium	ppm	ASTM D5185m >20	0	0	0
Nickel	ppm	ASTM D5185m >20	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	<1	<1	<1
Aluminum	ppm	ASTM D5185m >20	0	<1	<1
Lead	ppm	ASTM D5185m >20	<1	0	<1
Copper	ppm	ASTM D5185m >20	15	22	18
Tin	ppm	ASTM D5185m >20	0	0	<1
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	<1	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 0	0	0	0
Barium	ppm	ASTM D5185m 0	<1	<1	0
Molybdenum	ppm	ASTM D5185m 0	0	0	0
Manganese	ppm	ASTM D5185m 0	0	0	0
Magnesium	ppm	ASTM D5185m 0	0	2	<1
Calcium	ppm	ASTM D5185m 50	49	47	58
Phosphorus	ppm	ASTM D5185m 330	340	355	344
Zinc	ppm	ASTM D5185m 430	415	374	455
Sulfur	ppm	ASTM D5185m 760	1490	1587	1670

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	0	<1	<1
Sodium	ppm	ASTM D5185m	0	<1	0
Potassium	ppm	ASTM D5185m >20	1	<1	1
Water	%	ASTM D6304 >0.05	0.003	0.003	0.004
ppm Water	ppm	ASTM D6304 >500	30.6	31.2	45.7

FLUID CLEANLINESS

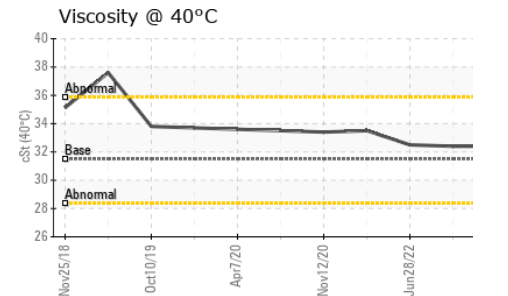
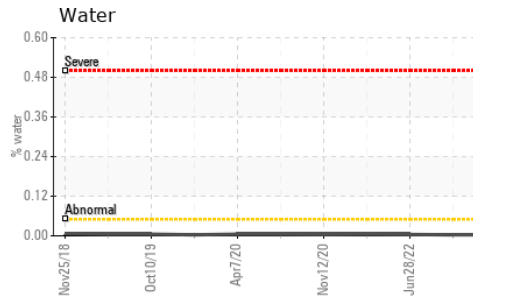
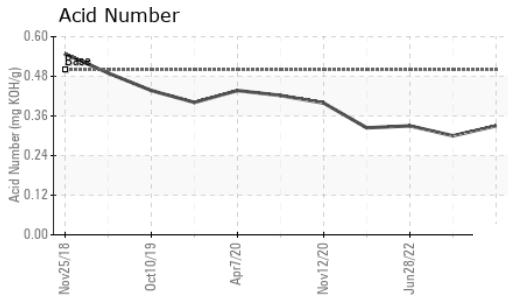
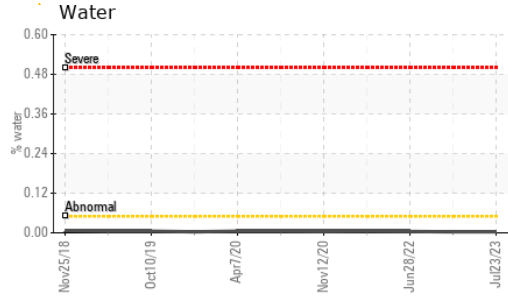
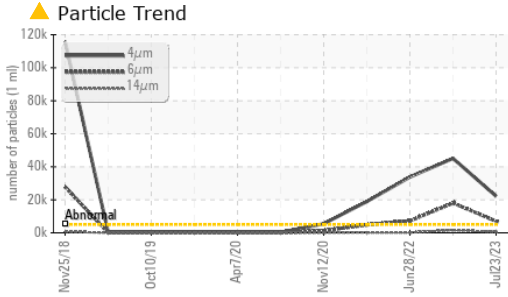
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 22199	▲ 45069	▲ 33827
Particles >6µm	ASTM D7647 >1300	▲ 7018	▲ 18045	▲ 7266
Particles >14µm	ASTM D7647 >160	▲ 558	▲ 1633	▲ 187
Particles >21µm	ASTM D7647 >40	▲ 155	▲ 345	▲ 17
Particles >38µm	ASTM D7647 >10	▲ 10	▲ 6	▲ 1
Particles >71µm	ASTM D7647 >3	▲ 0	▲ 0	▲ 0
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 22/20/16	▲ 23/21/18	▲ 22/20/15

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.50	0.33	0.30	0.33



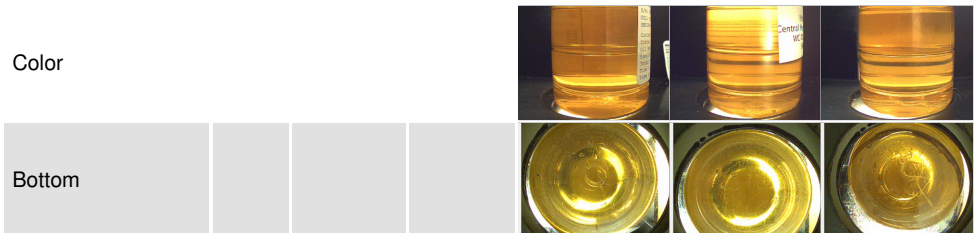
OIL ANALYSIS REPORT



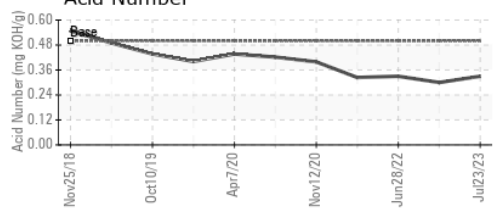
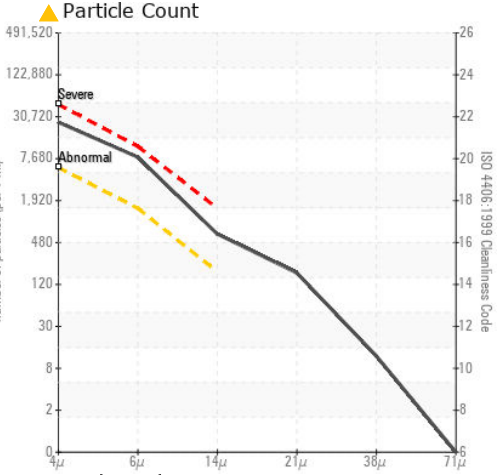
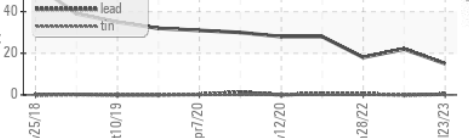
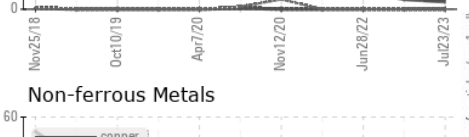
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	31.5	32.4	32.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM5905509 **Received** : 24 Jul 2023
Lab Number : 05905509 **Diagnosed** : 25 Jul 2023
Unique Number : 10566865 **Diagnostician** : Doug Bogart
Test Package : IND 2

PREMIUM PET HEALTH - SMIRFIELD (SMIORA)
 101 14TH ST SE
 ORANGE CITY, IA
 US 51041
 Contact: TIM REINERT

To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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