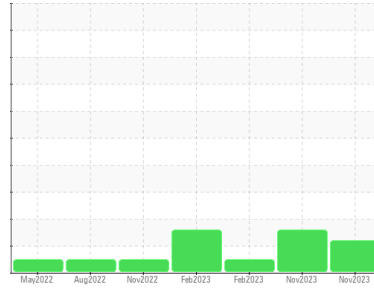




PROBLEM SUMMARY

Sample Rating Trend

ISO



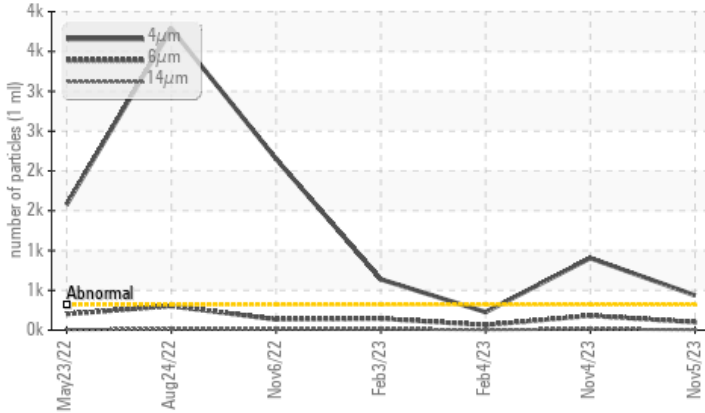
Machine Id
WRWSB-1 (S/N 16-414)

Component
Hydraulic System

Fluid
PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (275 GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: After 14 hours kidney filtration.)

PROBLEMATIC TEST RESULTS

Sample Status		ATTENTION	ABNORMAL	NORMAL
Particles >4µm	ASTM D7647 >320	▲ 437	▲ 905	227
Particles >6µm	ASTM D7647 >80	▲ 100	▲ 181	64
Oil Cleanliness	ISO 4406 (c) >15/13/10	▲ 16/14/10	▲ 17/15/11	15/13/10

Customer Id: WESCONSC
Sample No.: WC0782777
Lab Number: 06001564
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@wearcheckusa.com

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

04 Nov 2023 Diag: Angela Borella

ISO



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



04 Feb 2023 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry and diagnostic comment updates for Target ISO. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The amount and size of particulates present in the system are acceptable. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



03 Feb 2023 Diag: Doug Bogart

ISO



No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry and diagnostic comment updates for Target ISO. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

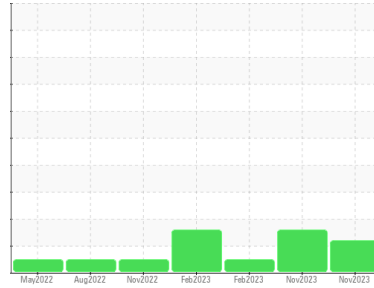
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
WRWSB-1 (S/N 16-414)

Component
Hydraulic System

Fluid
PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (275 GAL)

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: After 14 hours kidney filtration.)

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 AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0782777	WC0782776	RW0003453
Sample Date	Client Info		05 Nov 2023	04 Nov 2023	04 Feb 2023
Machine Age	hrs	Client Info	43102	43097	37886
Oil Age	hrs	Client Info	9944	9939	4708
Oil Changed	Client Info		Filtered	N/A	Filtered
Sample Status			ATTENTION	ABNORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	8	8	5
Chromium	ppm	ASTM D5185m >20	<1	<1	0
Nickel	ppm	ASTM D5185m >20	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	<1
Aluminum	ppm	ASTM D5185m >20	2	2	0
Lead	ppm	ASTM D5185m >20	0	0	0
Copper	ppm	ASTM D5185m >20	7	7	6
Tin	ppm	ASTM D5185m >20	0	0	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	0	0	0
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 0	4	4	5
Manganese	ppm	ASTM D5185m 1	0	0	0
Magnesium	ppm	ASTM D5185m 0	5	5	3
Calcium	ppm	ASTM D5185m 100	170	167	183
Phosphorus	ppm	ASTM D5185m 670	603	597	578
Zinc	ppm	ASTM D5185m 850	853	842	839
Sulfur	ppm	ASTM D5185m 1600	1869	1833	1796

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<1	<1	<1
Sodium	ppm	ASTM D5185m	0	0	0
Potassium	ppm	ASTM D5185m >20	1	<1	0

FLUID CLEANLINESS

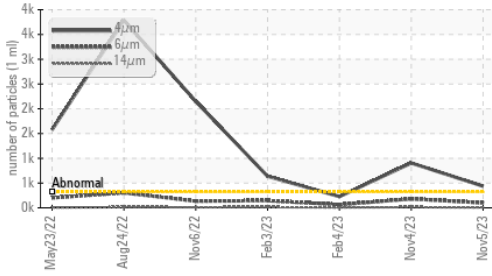
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>320	▲ 437	▲ 905	227
Particles >6µm	ASTM D7647	>80	▲ 100	▲ 181	64
Particles >14µm	ASTM D7647	>10	6	▲ 13	6
Particles >21µm	ASTM D7647	>3	1	3	1
Particles >38µm	ASTM D7647	>3	0	0	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>15/13/10	▲ 16/14/10	▲ 17/15/11	15/13/10

FLUID DEGRADATION

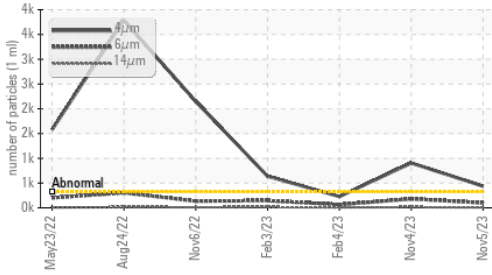
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.60	0.41	0.41	0.45

OIL ANALYSIS REPORT

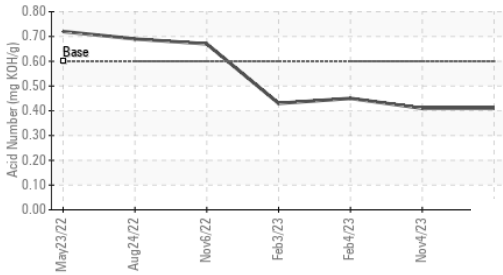
▲ Particle Trend



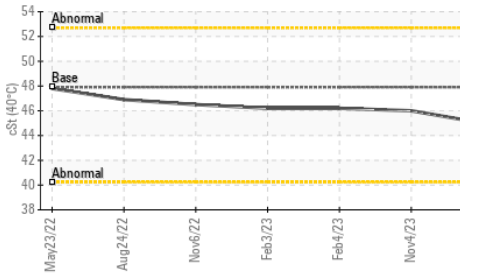
▲ Particle Trend



Acid Number



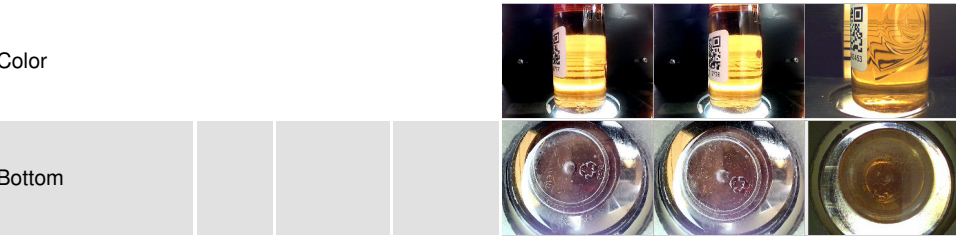
Viscosity @ 40°C



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

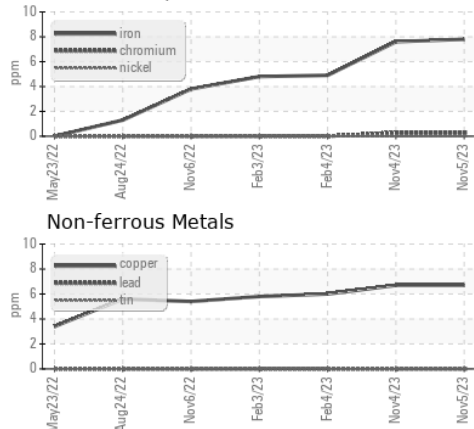
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	47.9	45.0	46.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
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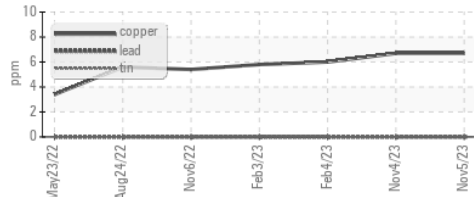


GRAPHS

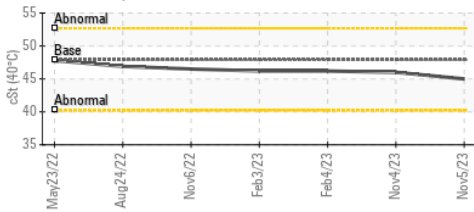
Ferrous Alloys



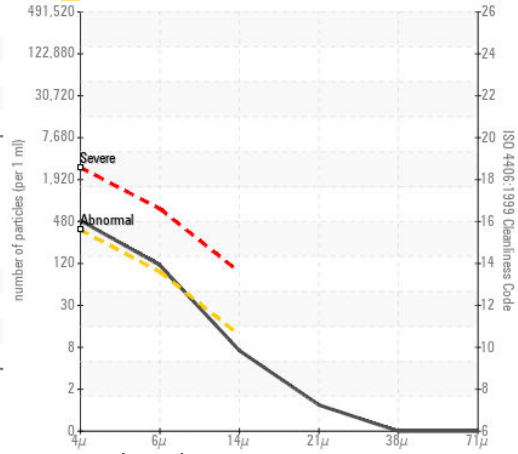
Non-ferrous Metals



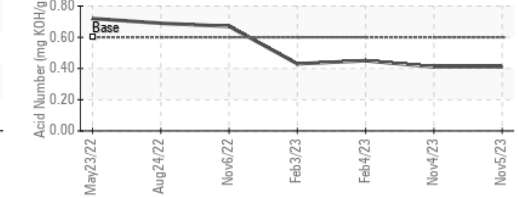
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0782777 **Received** : 08 Nov 2023
Lab Number : 06001564 **Diagnosed** : 09 Nov 2023
Unique Number : 10729924 **Diagnostician** : Angela Borella
Test Package : IND 2

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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)