



PROBLEM SUMMARY

Sample Rating Trend

ISO

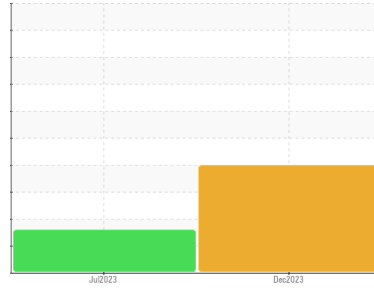


Area
ORIN CONTRACTORS

Machine Id
180

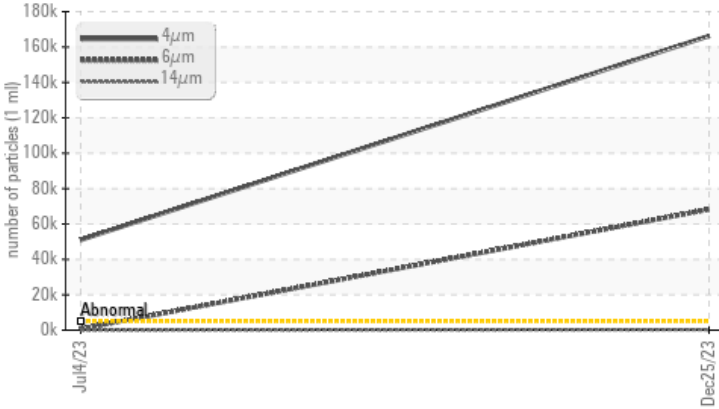
Component
Hydraulic System

Fluid
PETRO CANADA HYDREX AW 46 (--- GAL)



COMPONENT CONDITION SUMMARY

Particle Trend



RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	SEVERE	---
Particles >4µm	ASTM D7647	>5000	166263	50999	---
Particles >6µm	ASTM D7647	>1300	68224	673	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	25/23/15	23/17/11	---

Customer Id: RONVAU
 Sample No.: WC0888455
 Lab Number: 02607150
 Test Package: MOBCE



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Kevin Marson +1 (289)291-4644 x4644
Kevin.Marson@wearcheck.com

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.
Resample	---	---	?	Resample in 30-45 days to monitor this situation.
Check Breathers	---	---	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Seals	---	---	?	Check seals and/or filters for points of contaminant entry.

HISTORICAL DIAGNOSIS

04 Jul 2023 Diag: Kevin Marson

ISO



Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

view report





OIL ANALYSIS REPORT

Sample Rating Trend

ISO

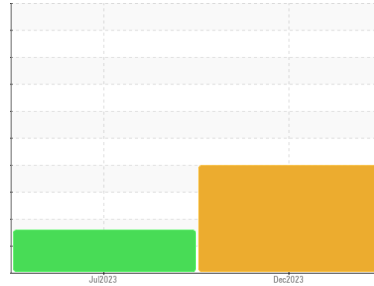


Area
ORIN CONTRACTORS

Machine Id
180

Component
Hydraulic System

Fluid
PETRO CANADA HYDREX AW 46 (--- GAL)



DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. 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		WC0888455	LH0270756	---
Sample Date	Client Info		25 Dec 2023	04 Jul 2023	---
Machine Age	hrs	Client Info	0	4820	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		Changed	Not Chngd	---
Sample Status			SEVERE	SEVERE	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		6	1	---
Iron	ppm	ASTM D5185(m) >20	32	32	---
Chromium	ppm	ASTM D5185(m) >10	1	1	---
Nickel	ppm	ASTM D5185(m) >10	<1	0	---
Titanium	ppm	ASTM D5185(m)	0	<1	---
Silver	ppm	ASTM D5185(m)	0	<1	---
Aluminum	ppm	ASTM D5185(m) >10	9	6	---
Lead	ppm	ASTM D5185(m) >10	<1	<1	---
Copper	ppm	ASTM D5185(m) >75	6	5	---
Tin	ppm	ASTM D5185(m) >10	0	0	---
Antimony	ppm	ASTM D5185(m)	0	0	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

ADDITIVES

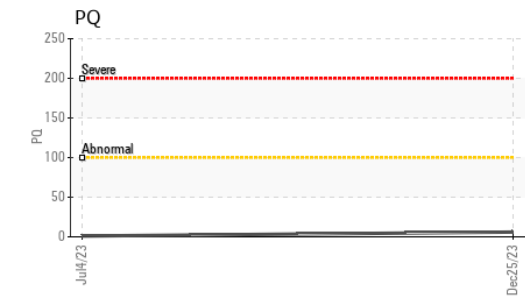
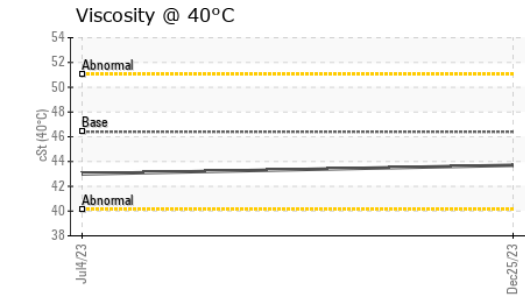
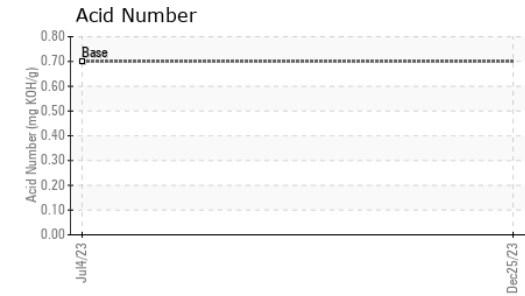
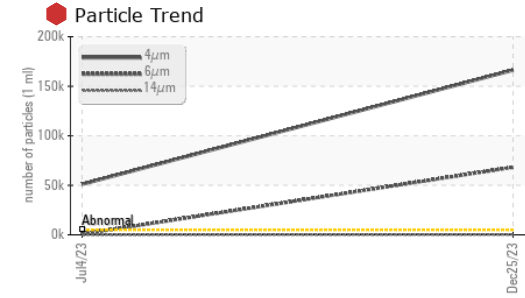
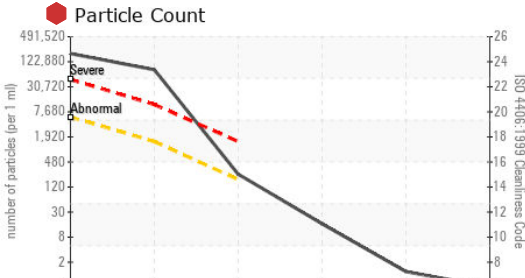
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0	<1	<1	---
Barium	ppm	ASTM D5185(m) 0	0	0	---
Molybdenum	ppm	ASTM D5185(m) 0	0	0	---
Manganese	ppm	ASTM D5185(m) 0	0	<1	---
Magnesium	ppm	ASTM D5185(m) 0	10	14	---
Calcium	ppm	ASTM D5185(m) 50	103	96	---
Phosphorus	ppm	ASTM D5185(m) 330	385	412	---
Zinc	ppm	ASTM D5185(m) 430	493	487	---
Sulfur	ppm	ASTM D5185(m) 760	1184	1084	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

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



OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **RONI/IRON SHORE EXCAVATING LTD.**
Sample No. : WC0888455 **Received** : 08 Jan 2024 **100 MACINTOSH BLVD**
Lab Number : **02607150** **Diagnosed** : 11 Jan 2024 **VAUGHAN, ON**
Unique Number : 5708236 **Diagnostician** : Kevin Marson **CA L4K 4P3**
Test Package : MOBCE (Additional Tests: PQ) **Contact: Service Team**
service.team@roni.ca

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	166263	50999	---
Particles >6µm	ASTM D7647	>1300	68224	673	---
Particles >14µm	ASTM D7647	>160	215	18	---
Particles >21µm	ASTM D7647	>40	14	6	---
Particles >38µm	ASTM D7647	>10	1	1	---
Particles >71µm	ASTM D7647	>3	0	1	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	25/23/15	23/17/11	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*	0.70	0.48	---	---

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	VLITE	NONE	---
Sand/Dirt	scalar Visual*	NONE	NONE	NONE	---
Appearance	scalar Visual*	NORML	NORML	NORML	---
Odor	scalar Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar Visual*	>0.1	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	43.7	43.0	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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