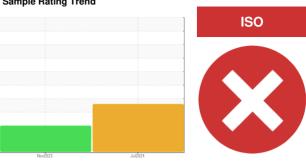


PROBLEM SUMMARY

Sample Rating Trend

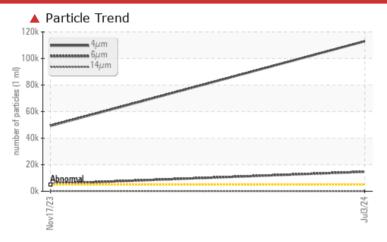


Machine Id 175

Hydraulic System

PETRO CANADA HYDREX AW 46 (--- GAL)

COMPONENT CONDITION SUMMARY





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. Confirm the source of the lubricant being utilized for top-up/fill. Resample in 30-45 days to monitor this situation. Please specify the component make and model with your next sample.

PROBLEMATIC TEST RESULTS										
Sample Status		SEVERE	SEVERE							
Particles >4µm	ASTM D7647 >5000	113018	4 9260							
Particles >6µm	ASTM D7647 >1300	14681	<u></u> 5571							
Oil Cleanliness	ISO 4406 (c) >19/1	7/14 4 24/21/13	2 3/20/14							

Customer Id: RONVAU Sample No.: WC0932683 Lab Number: 02647032 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.			
Information Required			?	Please specify the component make and model with your next sample.			
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 Fluid Source			?	Confirm the source of the lubricant being utilized for top-up/fill.			
Check Seals			?	Check seals and/or filters for points of contaminant entry.			

HISTORICAL DIAGNOSIS

17 Nov 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. The filter change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample in 30-45 days to monitor this situation. Please specify the component make and model with your next sample.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Additive levels indicate the addition of a different brand, or type of 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.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
175

Hydraulic System

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. Confirm the source of the lubricant being utilized for top-up/fill. Resample in 30-45 days to monitor this situation. Please specify the component make and model with your next sample.

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

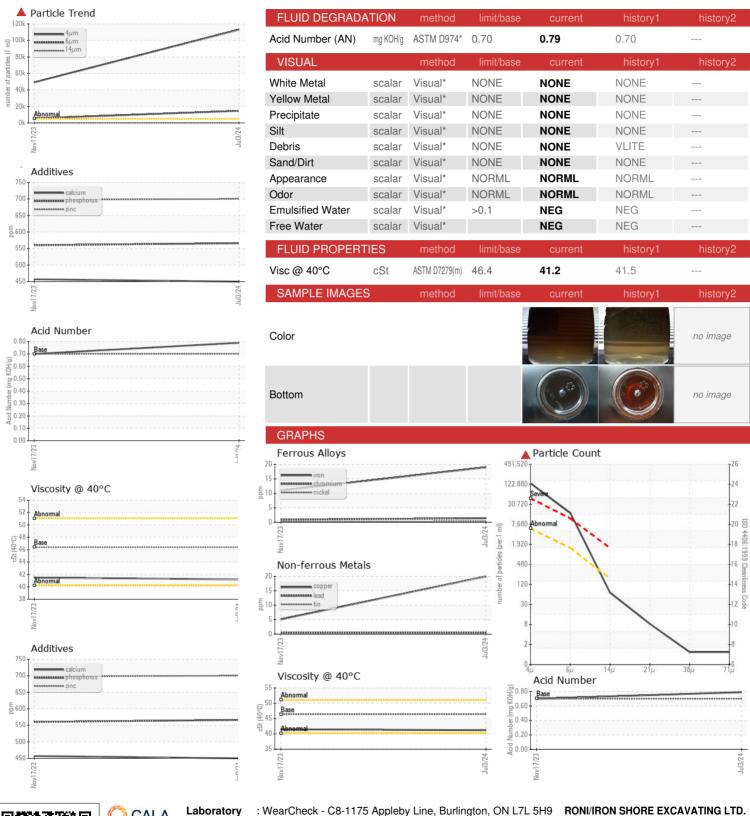
Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

\			Nov2023	Jul2024		
			11092023	JULUZT		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0932683	WC0873035	
Sample Date		Client Info		03 Jul 2024	17 Nov 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				SEVERE	SEVERE	
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	19	11	
Chromium	ppm	ASTM D5185(m)	>10	1	<1	
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	
Titanium	ppm	ASTM D5185(m)		<1	0	
Silver	ppm	ASTM D5185(m)		<1	<1	
Aluminum	ppm	ASTM D5185(m)	>10	6	2	
Lead	ppm	ASTM D5185(m)	>10	<1	<1	
Copper	ppm	ASTM D5185(m)	>75	20	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)		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	2	2	
Barium	ppm	ASTM D5185(m)	0	<1	<1	
Molybdenum	ppm	ASTM D5185(m)	0	0	0	
Manganese	ppm	ASTM D5185(m)	0	<1	0	
Magnesium	ppm	ASTM D5185(m)	0	7	5	
Calcium	ppm	ASTM D5185(m)	50	450	457	
Phosphorus	ppm	ASTM D5185(m)	330	566	560	
Zinc	ppm	ASTM D5185(m)	430	700	697	
Sulfur	ppm	ASTM D5185(m)	760	1756	1723	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS	}	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	13	5	
Sodium	ppm	ASTM D5185(m)		3	2	
Potassium	ppm	ASTM D5185(m)	>20	2	<1	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 113018	▲ 49260	
Particles >6μm		ASTM D7647	>1300	▲ 14681	<u></u> 5571	
Particles >14µm		ASTM D7647	>160	60	155	
Particles >21µm		ASTM D7647	>40	7	41	
Particles >38µm		ASTM D7647	>10	1	3	
Particles >71μm		ASTM D7647		1	2	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	24/21/13	2 3/20/14	

Contact/Location: Service Team - RONVAU



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WC0932683

Lab Number : 02647032 Unique Number : 5812584

Received : 10 Jul 2024 Tested : 11 Jul 2024

Diagnosed : 11 Jul 2024 - Kevin Marson

Test Package : MOBCE (Additional Tests: TAN Man) 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.

100 MACINTOSH BLVD

Contact: Service Team

service.team@roni.ca

VAUGHAN, ON

CA L4K 4P3

T: