

PROBLEM SUMMARY

Area **ROLL SHOP** Machine Id [ROLL SHOP] BIG GRINDER SPINDLE Component

Hydraulic System

PETRO CANADA HYDREX AW 32 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count or accurate viscosity test.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	ATTENTION	NORMAL		
Water	%	ASTM D6304	>0.05	1.73				
ppm Water	ppm	ASTM D6304	>500	▲ 17300				
Emulsified Water	scalar	*Visual	>0.05	a 0.2%	NEG	NEG		
Free Water	scalar	*Visual		▲ >10%	NEG	NEG		

Customer Id: SDITER Sample No.: PCA0113017 Lab Number: 06102443 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

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



RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Water Drain-off			?	We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid.			
Resample			?	We recommend an early resample to monitor this condition.			
Check Water Access			?	We advise that you check for the source of water entry.			

HISTORICAL DIAGNOSIS



26 Dec 2023 Diag: Jonathan Hester

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

14 Aug 2023 Diag: Don Baldridge

ORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the fluid. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

22 Nov 2022 Diag: Angela Borella



No corrective action is recommended at this time. Resample at the next service interval to monitor.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 condition of the oil is suitable for further service.





Area **ROLL SHOP** Machine Id [ROLL SHOP] BIG GRINDER SPINDLE

Hydraulic System

PETRO CANADA HYDREX AW 32 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count or accurate viscosity test.

Wear

All component wear rates are normal.

Contamination

There is a high concentration of water present in the oil. Excessive free water present.

Fluid Condition

The AN level is acceptable for this fluid.



SAMPLE INFORM		method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0113017	PCA0107740	PCA0101460
Sample Date		Client Info		26 Feb 2024	26 Dec 2023	14 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ATTENTION	NORMAL
WEAR METALS		method	limit/hase	ourrent	history1	history2
	,			current	nistory	matoryz
Iron	ppm	ASTM D5185m	>20	0	0	0
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		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	<1	0	0
Copper	ppm	ASTM D5185m	>20	<1	<1	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0	0	0	0
Magnesium	ppm	ASTM D5185m	0	1	<1	3
Calcium	ppm	ASTM D5185m	50	37	53	63
Phosphorus	ppm	ASTM D5185m	330	295	299	301
Zinc	ppm	ASTM D5185m	430	363	380	354
Sulfur	ppm	ASTM D5185m	760	847	846	968
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	<1
Sodium	ppm	ASTM D5185m		<1	<1	1
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	1.73		
ppm Water	ppm	ASTM D6304	>500	17300		
FLUID CLEANLI	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000		6965	1974
Particles >6µm		ASTM D7647	>1300		912	672
Particles >14µm		ASTM D7647	>160		69	50
Particles >21µm		ASTM D7647	>40		17	12
Particles >38µm		ASTM D7647	>10		0	0
Particles >71µm		ASTM D7647	>3		0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14		20/17/13	18/17/13
FLUID DEGRAD	ATI <u>ON</u>	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.50	0.80	0.29	0.33



OIL ANALYSIS REPORT







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG	NEG
Free Water	scalar	*Visual		▲ >10%	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	31.5	0.8	34.2	35.4
SAMPLE IMAG	ES	method	limit/base	current	history1	history2
Color				0. (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		0 BIG GRINDER Petro Canada Advanced Ind

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Contact/Location: BRAD ELLIS - SDITER