

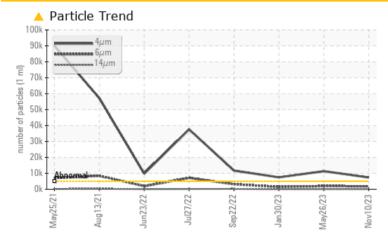
# **PROBLEM SUMMARY**

### Area COLD MILL/CM-5-STAND Machine Id AOR HPU 5STD-ROLL-AORR Component

Hydraulic System

## PETRO CANADA HYDREX AW 68 (100 GAL)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status			ATTENTION	ABNORMAL	ATTENTION		
Particles >4µm	ASTM D7647	>5000	<u> </u>	<b>11347</b>	<b>A</b> 7470		
Particles >6µm	ASTM D7647	>1300	<u> </u>	<b>1</b> 970	🔺 1483		
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u> </u>	<b>1</b> 21/18/13	<b>2</b> 0/18/12		

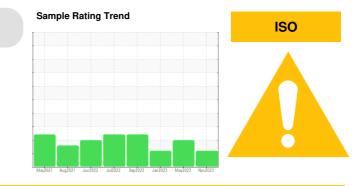
Customer Id: CONMUSAL Sample No.: KFS0004940 Lab Number: 06007652 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

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**

### 26 May 2023 Diag: Don Baldridge



No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is a high 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.

### 30 Jan 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 < 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.

### 22 Sep 2022 Diag: Don Baldridge

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.An increase in the copper level is noted. All other 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**

## Area COLD MILL/CM-5-STAND Machine Id AOR HPU 5STD-ROLL-AORR

Hydraulic System

PETRO CANADA HYDREX AW 68 (100 GAL)

### DIAGNOSIS

### A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### 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 suitable for further service.

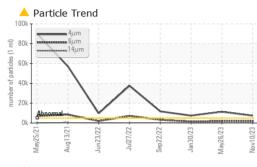
)		May2021 A	ug2021 Jun2022 Jul20;	22 Sep2022 Jan2023 May2023	Nov2023	
SAMPLE INFORM	<b>/IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004940	KFS0002541	KFS0002519
Sample Date		Client Info		10 Nov 2023	26 May 2023	30 Jan 2023
Machine Age	hrs	Client Info		0	0	0
Dil Age	hrs	Client Info		0	0	0
Dil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>20	0	<1	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Fitanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
_ead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	20	<u> </u>	10
Fin	ppm	ASTM D5185m	>20	0	0	0
/anadium	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
Nolybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0	0	0	0
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	50	37	44	49
Phosphorus	ppm	ASTM D5185m	330	328	325	333
Zinc	ppm	ASTM D5185m	430	436	437	442
Sulfur	ppm	ASTM D5185m	760	793	953	949
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	0
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>A</b> 7411	<b>1</b> 1347	<b>A</b> 7470
Particles >6µm		ASTM D7647	>1300	🔺 1837	<b>1</b> 970	<b>1</b> 483
Particles >14µm		ASTM D7647	>160	81	76	27
Particles >21µm		ASTM D7647	>40	11	10	2
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 20/18/14	<b>1</b> /18/13	▲ 20/18/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.60	0.31	0.32	0.37

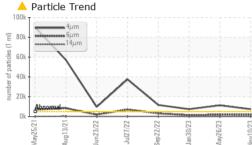
Sample Rating Trend

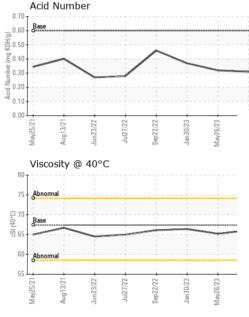
ISO



# **OIL ANALYSIS REPORT**



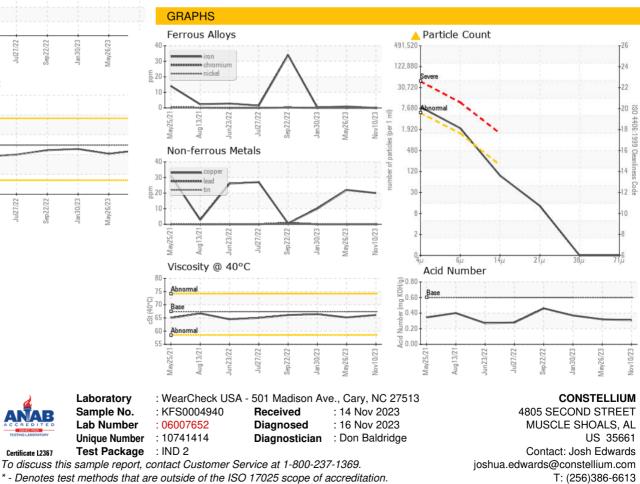




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67.4	66.1	65.2	66.4
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						



Bottom



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

Submitted By: Kenneth Humphries

Page 4 of 4

F: