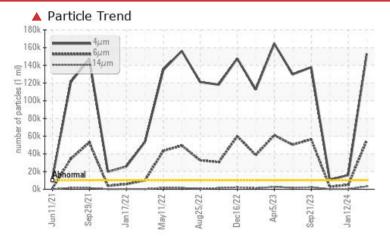


### **PROBLEM SUMMARY**

### Area MP-130A B69317 - BONE CANNON PROVISUR HS250 FGP FTP (S/N 21-125) Component Hydraulic System Fluid PETRO CANADA PURITY FG AW HYDRAULIC 46 (--- QTS)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### PROBLEMATIC TEST RESULTS Sample Status SEVERE ATTENTION **ATTENTION** Particles >4µm ASTM D7647 >10000 **153036** 16023 0641 Particles >6µm ASTM D7647 >2500 **55029** 4841 2868 Particles >14µm ASTM D7647 >320 **3257** 270 115 Particles >21um ASTM D7647 >80 **6** 515 50 19 **Oil Cleanliness** ISO 4406 (c) >20/18/15 🔺 24/23/19 🥚 21/19/15 🕘 21/19/14

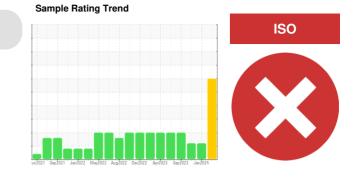
Customer Id: HORAUS Sample No.: WC0921421 Lab Number: 06144188 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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



RECOMMENDED ACTIONS							
Action	Status Date Do		Done By	Description			
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			
Resample			?	Resample in 30-45 days to monitor this situation.			
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with 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 Dirt Access			?	We advise that you check all areas where contaminants can enter the system.			
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			

### HISTORICAL DIAGNOSIS

### 12 Jan 2024 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.





#### 28 Nov 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.



#### 21 Sep 2023 Diag: Don Baldridge

We recommend you service the filters on this component. 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.





## **OIL ANALYSIS REPORT**

### Area MP-130A B69317 - BONE CANNON PROVISUR HS250 FGP FTP (S/N 21-125) Hydraulic System

PETRO CANADA PURITY FG AW HYDRAULIC 46 (--- QTS)

### DIAGNOSIS

### Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

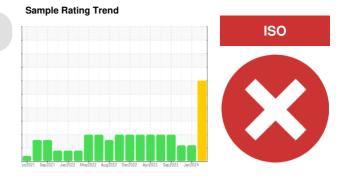
All component wear rates are normal.

### Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code.

### 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.



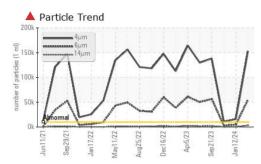
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0921421	WC0880544	WC0866778
Sample Date		Client Info		04 Apr 2024	12 Jan 2024	28 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ATTENTION	ATTENTION
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
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	0	0	0
Copper	ppm	ASTM D5185m	>20	0	2	<1
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
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	<1	0
Phosphorus	ppm	ASTM D5185m		372	358	374
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		893	763	822
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	7	7	7
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>1</b> 53036	6023	0641
Particles >6µm		ASTM D7647		<b>4</b> 55029	4841	2868
Particles >14µm		ASTM D7647	>320	<b>4</b> 3257	270	115
Particles >21µm		ASTM D7647	>80	<u> </u>	50	19
Particles >38µm		ASTM D7647	>20	6	2	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>4</b> 24/23/19	21/19/15	21/19/14
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.26	0.13	0.11	0.11
1-37-22) Boy: 1				Contact/Lo	cation · RVAN I (	

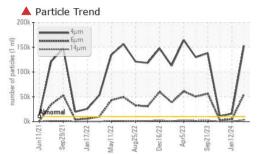
Report Id: HORAUS [WUSCAR] 06144188 (Generated: 04/11/2024 10:37:22) Rev: 1

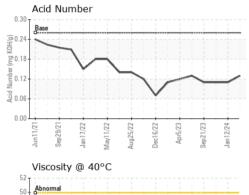
Contact/Location: RYAN LOWE - HORAUS

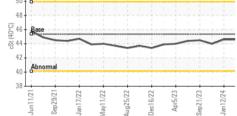


# **OIL ANALYSIS REPORT**

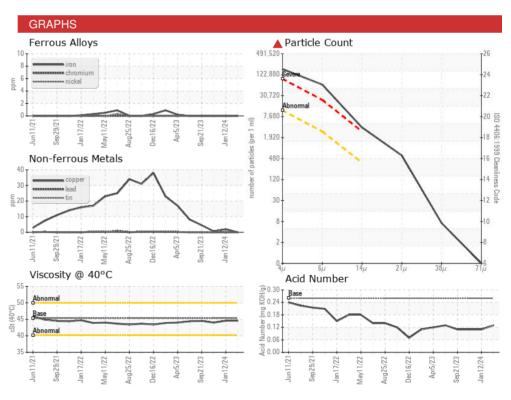








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.36	44.6	44.6	44.0
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color					•	
Bottom						



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **HORMEL FOODS - AUSTIN** Sample No. : WC0921421 Received : 10 Apr 2024 1101 NORTH MAIN ST Lab Number : 06144188 Tested : 11 Apr 2024 AUSTIN, MN Unique Number : 10968996 Diagnosed : 11 Apr 2024 - Wes Davis US 55912 Test Package : IND 2 Contact: RYAN LOWE Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. rslowe@hormel.com T: (507)437-5674 \* - 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)

Report Id: HORAUS [WUSCAR] 06144188 (Generated: 04/11/2024 10:37:22) Rev: 1

Contact/Location: RYAN LOWE - HORAUS

Page 4 of 4

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