

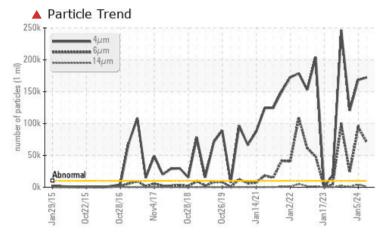
## **PROBLEM SUMMARY**

#### Area **RP-101** Machine Id **B57013 PRESSER FEED AUGER 1** Component

Gearbox Eluid

PETRO CANADA ENDURATEX EP 320 (--- GAL)

### 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 ABNORMAL SEVERE Particles >4µm ASTM D7647 >10000 **172315** 168463 **120287** Particles >6µm ASTM D7647 >2500 **4** 70437 A 94547 ▲ 24335 Particles >14µm ASTM D7647 >320 1181 **4098** 602 Particles >21um ASTM D7647 >80 **A** 214 **649** 137 **Oil Cleanliness** ISO 4406 (c) >20/18/15 **4 25/23/17** ▲ 25/24/19 ▲ 24/22/16

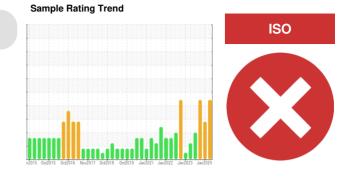
Customer Id: HORAUS Sample No.: WC0907925 Lab Number: 06153063 Test Package: IND 2



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	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

#### 05 Jan 2024 Diag: Jonathan Hester



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.Gear wear is indicated. 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

# ISO

#### 13 Oct 2023 Diag: Wes Davis

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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is a high amount of silt (particulates < 14 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. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



#### 16 Jul 2023 Diag: Doug Bogart

We recommend you service the filters on this component if applicable. 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.





#### Area **RP-101** Machine Id **B57013 PRESSER FEED AUGER 1** Component

Gearbox

PETRO CANADA ENDURATEX EP 320 (--- GAL)

#### DIAGNOSIS

#### A 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.

ISO

SAMPLE INFORM	ATION	method	limit/base		history1	history2
Sample Number		Client Info		WC0907925	WC0880545	WC0842514
Sample Date		Client Info		10 Apr 2024	05 Jan 2024	13 Oct 2023
Machine Age	mths	Client Info		0	0	0
0	mths	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				SEVERE	ABNORMAL	SEVERE
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	88	<b>1</b> 57	44
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	1	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	2	<1	0
Tin	ppm	ASTM D5185m	>25	<1	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	55	40	38	33
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	0	2	2	0
Calcium	ppm	ASTM D5185m	0	11	22	6
Phosphorus	ppm	ASTM D5185m	240	472	461	446
Zinc	ppm	ASTM D5185m	1	3	15	3
Sulfur	ppm	ASTM D5185m	13700	6488	5515	5309
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	8	16	8
Sodium	ppm	ASTM D5185m		7	9	4
Potassium	ppm	ASTM D5185m	>20	8	9	4
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm			>10000	<b>1</b> 72315	▲ 168463	120287
Particles >6µm		ASTM D7647	>2500	<b>A</b> 70437	<b>4</b> 94547	<b>4</b> 24335
Particles >14µm		ASTM D7647		<u> </u>	4098	602
Particles >21µm		ASTM D7647	>80	<u> </u>	<b>▲</b> 649	137
		ASTM D7647		6	16	4
						0
Particles >71µm		ASTM D7647		0	1	0
Particles >38µm Particles >71µm Oil Cleanliness		ASTM D7647 ISO 4406 (c)	>4 >20/18/15	0 <b>2</b> 5/23/17	1	0 <b>4</b> 24/22/16
Particles >71µm	TION					

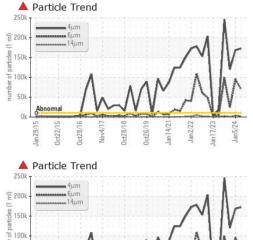
Report Id: HORAUS [WUSCAR] 06153063 (Generated: 04/19/2024 13:02:29) Rev: 1

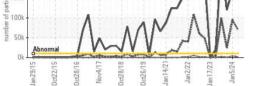
Contact/Location: RYAN LOWE - HORAUS Page 3 of 4

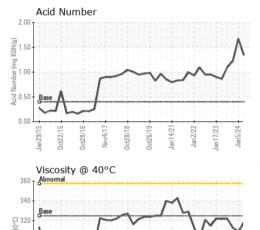
Sample Rating Trend



## **OIL ANALYSIS REPORT**



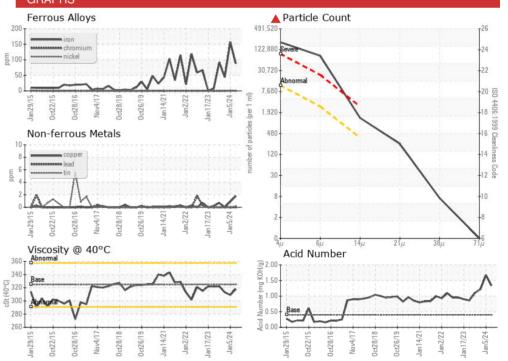




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	325	318	309	313
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color					•	
					1	1

Bottom





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **HORMEL FOODS - AUSTIN** Sample No. : WC0907925 Received : 18 Apr 2024 1101 NORTH MAIN ST Lab Number : 06153063 Tested : 19 Apr 2024 AUSTIN, MN Unique Number : 10983141 Diagnosed : 19 Apr 2024 - Wes Davis US 55912 Test Package : IND 2 (Additional Tests: PrtCount) 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. F: (507)437-9805

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: HORAUS [WUSCAR] 06153063 (Generated: 04/19/2024 13:02:29) Rev: 1

Contact/Location: RYAN LOWE - HORAUS

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0ct26/19 Jan 14/21

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