

## **OIL ANALYSIS REPORT**

### Area RP-101 **B57021 PRESSER RERUN CONVEYOR**

Gearbox Fluid

PETRO CANADA ENDURATEX EP 320 (--- QTS)

#### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### Wear

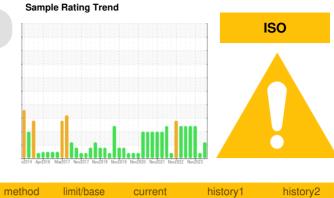
All component wear rates are normal.

#### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above 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 INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0856108	WC0885394	WC0856035
Sample Date		Client Info		09 May 2024	07 Feb 2024	03 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
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	18	33	32
	ppm	ASTM D5185m	>15	<1	0	0
	ppm	ASTM D5185m	>15	<1	0	<1
	ppm	ASTM D5185m	-	<1	<1	0
	ppm	ASTM D5185m		<1	0	0
	ppm	ASTM D5185m	>25	2	0	0
	ppm	ASTM D5185m	>100	_ <1	0	<1
-	ppm		>200	<1	1	<1
	ppm	ASTM D5185m	>25	<1	<1	0
	ppm	ASTM D5185m	200	<1	<1	0
- · ·	ppm	ASTM D5185m		<1	0	0
	PPIII				-	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	55	11	21	60
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	1	1	<1
Calcium	ppm	ASTM D5185m	0	-	10	0
Phosphorus			0	5	10	2
	ppm	ASTM D5185m	240	5 391	380	423
	ppm ppm	ASTM D5185m				
Zinc		ASTM D5185m	240	391	380	423
Zinc	ppm	ASTM D5185m ASTM D5185m	240 1	391 32	380 54	423 40
Zinc Sulfur CONTAMINANTS	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	240 1 13700	391 32 7264	380 54 4520	423 40 5298
Zinc Sulfur CONTAMINANTS Silicon	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	240 1 13700 limit/base	391 32 7264 current	380 54 4520 history1	423 40 5298 history2
Zinc Sulfur Sulfur Solicon Sodium I	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	240 1 13700 limit/base	391 32 7264 current 12	380 54 4520 history1 33	423 40 5298 history2 ▲ 174
Zinc Sulfur Sulfur Solicon Sodium I	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	240 1 13700 limit/base >50	391 32 7264 current 12 <1	380 54 4520 history1 33 3	423 40 5298 history2 ▲ 174 1
Zinc Sulfur Sulfur Solicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m ASTM D5185m ASTM D5185m	240 1 13700 limit/base >50 >20	391 32 7264 current 12 <1 2	380 54 4520 history1 33 3 0	423 40 5298 history2 ▲ 174 1 2
Zinc Sulfur Sulfur Solicon Sodium FLUID CLEANLINE	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D7647	240 1 13700 limit/base >50 >20 limit/base	391 32 7264 current 12 <1 2 current	380 54 4520 history1 33 3 0 history1	423 40 5298 history2 ▲ 174 1 2 history2
Zinc Sulfur Sulfur Soliton Sodium Potassium FLUID CLEANLINE Particles >4µm	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D7647	240 1 13700 imit/base >50 >20 imit/base >10000	391 32 7264 2 12 <1 2 2 <u>current</u> 2 2 26868	380 54 4520 history1 33 3 0 history1 	423 40 5298 history2 ▲ 174 1 2 history2 ▲ 20522
Zinc Sulfur Sulfur Soliton Sodium Potassium FLUID CLEANLINE Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647	240 1 13700 imit/base >50 >50 >20 imit/base >20 imit/base >10000 >2500 >320	391 32 7264 <u>current</u> 12 <1 2 <1 2 2 <u>current</u> ▲ 26868 ● 4615	380 54 4520 history1 33 3 0 history1 	423 40 5298 history2 ▲ 174 1 2 history2 ▲ 20522 2326
Zinc Sulfur Sulfur Soliton Sodium Potassium FLUID CLEANLINE Particles >4µm Particles >14µm	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647	240 1 13700 imit/base >50 >50 >20 imit/base >20 imit/base >10000 >2500 >320	391 32 7264 12 <1 2 <1 2 2 current 2 8 26868 ● 4615 165	380 54 4520 history1 33 3 0 history1 	423 40 5298 1istory2 ▲ 174 1 2 history2 ▲ 20522 2326 52
Zinc Sulfur Sulfur Sulfur Silicon Sodium Potassium FLUID CLEANLINE Particles >6µm Particles >14µm Particles >21µm Sulfur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	240 1 13700 <b>limit/base</b> >50 >20 <b>limit/base</b> >10000 >2500 >320 >320 >80 >20	391 32 7264 <u>current</u> 12 <1 2 2 <u>current</u> ▲ 26868 ● 4615 165 35	380 54 4520 history1 33 3 0 history1  	423 40 5298 history2 ▲ 174 1 2 history2 ▲ 20522 2326 52 9
Zinc Sulfur Sulfur Sulfur Sulfur Silicon Sodium Sodium Sodium Sodium Sodium Sodium Sulfur Sul	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	240 1 13700 <b>limit/base</b> >50 >20 <b>limit/base</b> >10000 >2500 >320 >320 >80 >20	391 32 7264 <b>current</b> 12 <1 2 2 <b>current</b> 26868 4615 165 35 2	380 54 4520 history1 33 3 0 history1  	423 40 5298 history2 ▲ 174 1 2 history2 ▲ 20522 2326 52 9 1

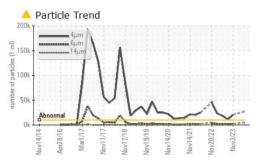
Acid Number (AN)

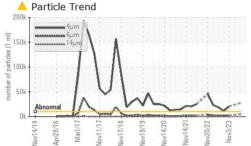
mg KOH/g ASTM D8045 0.4

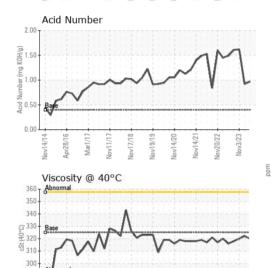
0.97 0.92 1.62 Contact/Location: RYAN LOWE - HORAUS



# **OIL ANALYSIS REPORT**







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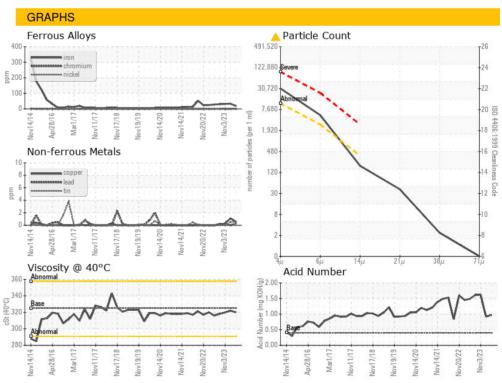
Vov14/14

pr28/1 Mar1/1

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	🔺 MODER	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	>0.2	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	325	320	322	320
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						
					A Contraction	17/

Bottom

Nov3/23



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **HORMEL FOODS - AUSTIN** Sample No. : WC0856108 Received : 15 May 2024 1101 NORTH MAIN ST Lab Number : 06180152 Tested : 16 May 2024 AUSTIN, MN Unique Number : 11031478 Diagnosed : 16 May 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (507)437-9805

Report Id: HORAUS [WUSCAR] 06180152 (Generated: 05/16/2024 11:25:41) Rev: 1

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Contact/Location: RYAN LOWE - HORAUS

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