

# **OIL ANALYSIS REPORT**

## Area GP-105 [10024125092] A20850 - PUMP VACUUM BUSCH R0630 RAPIDPAK LINE 2

Vacuum Pump

Fluid PETRO CANADA PURITY FG SYNTHETIC 100 (15 LTR)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

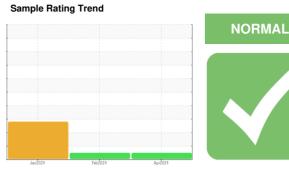
All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



SAMPLE INFORMATIONmethodlimit/basecurrenthistory1history1Sample NumberClient InfoWC0907955WC0894905WC088050Sample DateClient InfoO6 Apr 202413 Feb 202406 Jan 2020Machine AgehrsClient InfoO00Oil AgehrsClient InfoO00Oil ChangedClient InfoN/AN/AN/ASample StatusClient InfoN/AN/AABNORM/ACONTAMINATIONmethodlimit/basecurrenthistory1history1WaterWC Method>.1NEGNEGNEGWEAR METALSmethodlimit/basecurrenthistory1history1IronppmASTM D5185m<>2000<1ChromiumppmASTM D5185m<>20000	560 )24 1AL ry2
Sample Date   Client Info   06 Apr 2024   13 Feb 2024   06 Jan 2024     Machine Age   hrs   Client Info   0   0   0     Oil Age   hrs   Client Info   0   0   0   0     Oil Age   hrs   Client Info   0   0   0   0   0     Oil Changed   Client Info   N/A   N/A   N/A   N/A   N/A     Sample Status   Imathod   Imathbase   current   history1   history1     Vater   WC Method   >.1   NEG   NEG   NEG     WEAR METALS   method   limit/base   current   history1   history1     Iron   ppm   ASTM D5185m   >20   0   0   <1	)24 1AL ry2
Machine Age   hrs   Client Info   0   0   0     Oil Age   hrs   Client Info   0   0   0   0   0     Oil Changed   Client Info   N/A   N/A   N/A   N/A   N/A     Sample Status   Imathematical Client Info   NORMAL   NORMAL   ABNORM/A     CONTAMINATION   method   limit/base   current   history1   history1     Water   WC Method   >.1   NEG   NEG   NEG     WEAR METALS   method   limit/base   current   history1   history1     Iron   ppm   ASTM D5185m   >20   0   0   <1	1AL ry2
Oil Age   hrs   Client Info   0   0   0     Oil Changed   Client Info   N/A   N/A   N/A   N/A     Sample Status   Imit/base   Current   NoRMAL   ABNORM/A     CONTAMINATION   method   limit/base   current   history1   history1     Water   WC Method   >.1   NEG   NEG   NEG     WEAR METALS   method   limit/base   current   history1   history1     Iron   ppm   ASTM D5185m   >20   0   0   <1	ry2
Oil Changed   Client Info   N/A   N/A     Sample Status   Image: Contramination of the status   NORMAL   NORMAL   ABNORMAL     CONTAMINATION   method   limit/base   current   history1   history2     Water   WC Method   >.1   NEG   NEG   NEG     WEAR METALS   method   limit/base   current   history1   history2     Iron   ppm   ASTM D5185m   >20   0   0   <1	ry2
Sample Status   NORMAL   NORMAL   ABNORMAL     CONTAMINATION   method   limit/base   current   history1   history1     Water   WC Method   >.1   NEG   NEG   NEG     WEAR METALS   method   limit/base   current   history1   history1     Iron   ppm   ASTM D5185m   >20   0   0   <1	ry2
Water WC Method >.1 NEG NEG   WEAR METALS method limit/base current history1 history1   Iron ppm ASTM D5185m >20 0 0 <1	
WEAR METALS method limit/base current history1 history   Iron ppm ASTM D5185m >20 0 0 <1	
Iron ppm ASTM D5185m >20 0 <1	
bb is in the second sec	ry2
Chromium ppm ASTM D5185m >20 0 0	
Nickel ppm ASTM D5185m >20 0 0 0	
Titanium     ppm     ASTM D5185m     0     <1	
Silver     ppm     ASTM D5185m     0     0     0	
Aluminum ppm ASTM D5185m >20 0 0 2	
Lead ppm ASTM D5185m >20 0 0	
Copper     ppm     ASTM D5185m     >20     0     <1	
Tin ppm ASTM D5185m >20 0 <1	
Vanadium     ppm     ASTM D5185m     0     0     0	
Cadmium     ppm     ASTM D5185m     0     0     0	
ADDITIVES method limit/base current history1 history	ry2
Boron ppm ASTM D5185m <b>0</b> 0 0	
Barium     ppm     ASTM D5185m     0     0     0	
Molybdenum     ppm     ASTM D5185m     0     <1	
Manganese     ppm     ASTM D5185m     0     0     0	
Magnesium     ppm     ASTM D5185m     0     0     0	
Calcium ppm ASTM D5185m <1 0 0	
Calcium     ppm     ASTM D5185m     <1	
Phosphorus     ppm     ASTM D5185m     26     27     13	
Phosphorus     ppm     ASTM D5185m     26     27     13	
Phosphorus     ppm     ASTM D5185m     26     27     13       Zinc     ppm     ASTM D5185m     0     0     0	y2
Phosphorus     ppm     ASTM D5185m     26     27     13       Zinc     ppm     ASTM D5185m     0     0     0       Sulfur     ppm     ASTM D5185m     74     170     55	ry2
PhosphorusppmASTM D5185m262713ZincppmASTM D5185m000SulfurppmASTM D5185m7417055CONTAMINANTSmethodlimit/basecurrenthistory1history1	ry2
Phosphorus     ppm     ASTM D5185m     26     27     13       Zinc     ppm     ASTM D5185m     0     0     0     0       Sulfur     ppm     ASTM D5185m     74     170     55       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     10     9     ▲ 29	ry2
Phosphorus     ppm     ASTM D5185m     26     27     13       Zinc     ppm     ASTM D5185m     0     0     0     0       Sulfur     ppm     ASTM D5185m     74     170     55       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >15     10     9     ▲ 29       Sodium     ppm     ASTM D5185m     2     <1	
Phosphorus     ppm     ASTM D5185m     26     27     13       Zinc     ppm     ASTM D5185m     0     0     0     0       Sulfur     ppm     ASTM D5185m     74     170     55       CONTAMINANTS     method     limit/base     current     history1     history1       Silicon     ppm     ASTM D5185m     >15     10     9     ▲ 29       Sodium     ppm     ASTM D5185m     2     <1     0       Potassium     ppm     ASTM D5185m     >20     3     1     4	
Phosphorus   ppm   ASTM D5185m   26   27   13     Zinc   ppm   ASTM D5185m   0   0   0   0     Sulfur   ppm   ASTM D5185m   74   170   55     CONTAMINANTS   method   limit/base   current   history1   history1     Silicon   ppm   ASTM D5185m   >15   10   9   ▲ 29     Sodium   ppm   ASTM D5185m   >20   3   1   4     FLUID CLEANLINESS   method   limit/base   current   history1   history1	
Phosphorus     ppm     ASTM D5185m     26     27     13       Zinc     ppm     ASTM D5185m     0     0     0     0       Sulfur     ppm     ASTM D5185m     74     170     55       CONTAMINANTS     method     limit/base     current     history1     history       Silicon     ppm     ASTM D5185m     >15     10     9     ▲ 29     29     Sodium     ppm     ASTM D5185m     >20     3     1     4       FLUID CLEANLINESS     method     limit/base     current     history1     history1       Particles >4μm     ASTM D7647     >10000     991     1815     9418	
Phosphorus     ppm     ASTM D5185m     26     27     13       Zinc     ppm     ASTM D5185m     0     0     0     0       Sulfur     ppm     ASTM D5185m     74     170     55       CONTAMINANTS     method     limit/base     current     history1     history1       Silicon     ppm     ASTM D5185m     >15     10     9     ▲ 29       Sodium     ppm     ASTM D5185m     >15     10     9     ▲ 29       Sodium     ppm     ASTM D5185m     >20     3     1     4       FLUID CLEANLINESS     method     limit/base     current     history1     history1       Particles >4μm     ASTM D7647     >10000     991     1815     9418       Particles >6μm     ASTM D7647     >2500     235     488     1956	
Phosphorus     ppm     ASTM D5185m     26     27     13       Zinc     ppm     ASTM D5185m     0     0     0     0       Sulfur     ppm     ASTM D5185m     74     170     55       CONTAMINANTS     method     limit/base     current     history1     history1       Silicon     ppm     ASTM D5185m     >15     10     9     ▲ 29       Sodium     ppm     ASTM D5185m     >15     10     9     ▲ 29       Sodium     ppm     ASTM D5185m     >20     3     1     4       FLUID CLEANLINESS     method     limit/base     current     history1     history1       Particles >4µm     ASTM D7647     >10000     991     1815     9418       Particles >6µm     ASTM D7647     >2500     235     488     1956       Particles >14µm     ASTM D7647     >320     22     33     66	
Phosphorus     ppm     ASTM D5185m     26     27     13       Zinc     ppm     ASTM D5185m     0     0     0     0       Sulfur     ppm     ASTM D5185m     74     170     55       CONTAMINANTS     method     limit/base     current     history1     history1       Silicon     ppm     ASTM D5185m     >15     10     9     ▲ 29     Sodium     ppm     ASTM D5185m     2     <1     0	

Acid Number (AN)

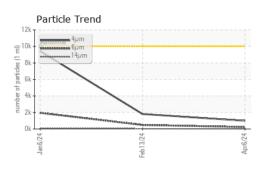
mg KOH/g ASTM D8045 0.5

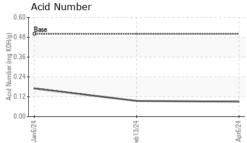
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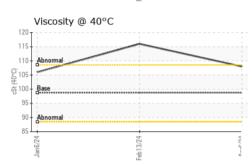
0.09 0.095 0.17 Contact/Location: RYAN LOWE - HORAUS Page 1 of 2

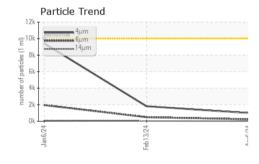


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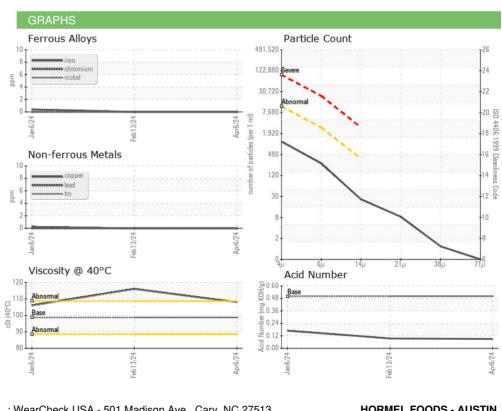








			12 22 71		1.1.1.4	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base		historv1	historv2
FLUID PROPERT Visc @ 40°C	IES cSt	method ASTM D445	limit/base 98.7	current 108	history1 116	history2 106
	cSt				· · · · · ·	
Visc @ 40°C	cSt	ASTM D445	98.7	108	116	106



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **HORMEL FOODS - AUSTIN** Sample No. : WC0907955 Received : 11 Apr 2024 1101 NORTH MAIN ST Lab Number : 06145848 Tested : 12 Apr 2024 AUSTIN, MN Unique Number : 10975926 Diagnosed : 15 Apr 2024 - Don Baldridge 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

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