

## **OIL ANALYSIS REPORT**

## Sample Rating Trend

ISO

# MP-105 [10023984227]

B52525 - PUMP VACUUM BUSCH RA0630 HAM LINE 1 (TOP) (S/N U093504072)

Component

**Top Pump** 

PETRO CANADA PURITY FG SYNTHETIC 100 (--- GAL)

## DIAGNOSIS

#### 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 high amount of silt (particulates < 14 microns in size) present in the oil.

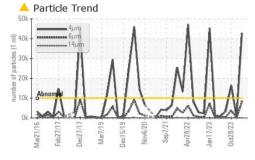
#### **Fluid Condition**

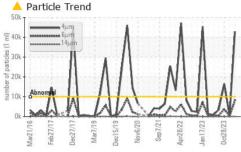
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

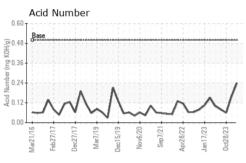
100 ( GAL)		w2016 Feb2017	Dec2017 Mar2019 Dec201	9 Nov2020 Sep2021 Apr2022 Jan20	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0894943	WC0880531	WC0856015
Sample Date		Client Info		08 Mar 2024	29 Dec 2023	28 Oct 2023
Machine Age	yrs	Client Info		0	0	0
Oil Age	yrs	Client Info		0	0	0
Oil Changed	<i>y</i> -	Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ATTENTION
CONTAMINATION	V	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	>90	12	12	3
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m	>3	0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	<1	2	<1
Lead	ppm	ASTM D5185m	>12	0	<1	0
Copper	ppm	ASTM D5185m	>30	1	<1	<1
Tin	ppm	ASTM D5185m	>9	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	7	0
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		0	<1	<1
Calcium	ppm	ASTM D5185m		0	1	0
Phosphorus	ppm	ASTM D5185m		574	629	322
Zinc	ppm	ASTM D5185m		5	2	0
Sulfur	ppm	ASTM D5185m		1651	1638	956
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	3	3	3
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>42753</b>	583	<b>16487</b>
Particles >6µm		ASTM D7647	>2500	<u> </u>	196	3798
Particles >14µm		ASTM D7647	>320	97	17	65
Particles >21µm		ASTM D7647	>80	6	4	10
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>23/20/14</b>	16/15/11	21/19/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.5	0.241	0.16	0.06

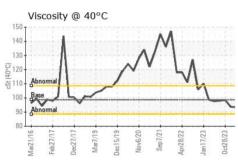


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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
<b>Emulsified Water</b>	scalar	*Visual	>.1	NEG	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	ΓIES	method	limit/base	current	history1	history2

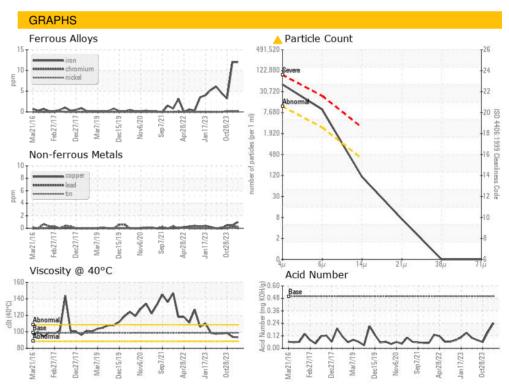
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Visc @ 40°C	cSt	ASTM D445	98.7	93.2	93.8	98.5

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Color











Certificate L2367

Laboratory Sample No.

Lab Number : 06124874 Unique Number : 10939025

: WC0894943

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

: 26 Mar 2024 Diagnosed Test Package: IND 2 (Additional Tests: PrtCount)

: 26 Mar 2024 - Jonathan Hester

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

: 21 Mar 2024

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

**HORMEL FOODS - AUSTIN** 

1101 NORTH MAIN ST AUSTIN, MN US 55912

Contact: RYAN LOWE rslowe@hormel.com

Contact/Location: RYAN LOWE - HORAUS

T: (507)437-5674 F: (507)437-9805