

# **OIL ANALYSIS REPORT**

## Area MACHINE Id B71512 - VACUUM PUMP BUSCH RA630 MWB LINE 2 B71512 (S/N USM121410254) Component Vacuum Pump

Fluid PETRO CANADA PURITY FG SYNTHETIC 100 (4 GAL)

### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

### Wear

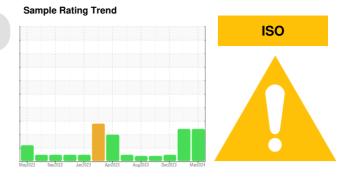
All component wear rates are normal.

#### Contamination

There is a high amount of particulates present in the oil.

#### **Fluid Condition**

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



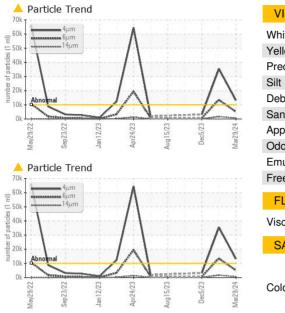
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0907934	WC0885406	WC0866784
Sample Date		Client Info		29 Mar 2024	01 Feb 2024	05 Dec 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATION	J	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	0
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		۰ <1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	۰ <1	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm		>20	0	0	1
Tin		ASTM D5185m	>20	۰ <1	<1	0
Vanadium	ppm	ASTM D5185m	>20	< 1	< 1	0
	ppm					
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	0	<1
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		572	641	622
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		1564	1434	1479
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	1
Sodium	ppm	ASTM D5185m		0	<1	2
						0
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Potassium FLUID CLEANLIN		ASTM D5185m method	>20 limit/base	<1 current	0 history1	history2
FLUID CLEANLIN						
<mark>FLUID CLEANLIN</mark> Particles >4μm		method	limit/base	current	history1	history2
FLUID CLEANLIN Particles >4μm Particles >6μm		method ASTM D7647	limit/base >10000	current	history1 ▲ 35359	history2 3179
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm		method ASTM D7647 ASTM D7647 ASTM D7647	limit/base >10000 >2500 >320	current ▲ 13283 ▲ 5088	history1 <ul> <li>▲ 35359</li> <li>▲ 13479</li> </ul>	history2 3179 672
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm		method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >10000 >2500 >320	current           ▲ 13283           ▲ 5088           ▲ 600	history1	history2 3179 672 37
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm Particles >38μm		method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >10000 >2500 >320 >80	current         ▲ 13283         ▲ 5088         ▲ 600         ▲ 214	history1	history2 3179 672 37 11
FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm		method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >10000 >2500 >320 >80 >20	current         ▲ 13283         ▲ 5088         ▲ 600         ▲ 214         ▲ 22	history1         ▲ 35359         ▲ 13479         ▲ 1643         ▲ 519         ▲ 22         2	history2 3179 672 37 11 0 0
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm Particles >38μm Particles >71μm Oil Cleanliness	ESS	method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ISO 4406 (c)	limit/base >10000 >2500 >320 >80 >20 >20 >4 >20/18/15	current         ▲ 13283         ▲ 5088         ▲ 600         ▲ 214         ▲ 22         2         2         2         21/20/16	history1	history2 3179 672 37 11 0 0 19/17/12
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm Particles >38μm Particles >71μm	ESS	method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >10000 >2500 >320 >80 >20 >20 >4 >20/18/15	current         ▲ 13283         ▲ 5088         ▲ 600         ▲ 214         ▲ 22         2	history1         ▲ 35359         ▲ 13479         ▲ 1643         ▲ 519         ▲ 22         2	history2 3179 672 37 11 0 0

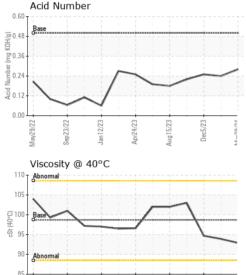
Report Id: HORAUS [WUSCAR] 06139878 (Generated: 04/08/2024 13:57:21) Rev: 1

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



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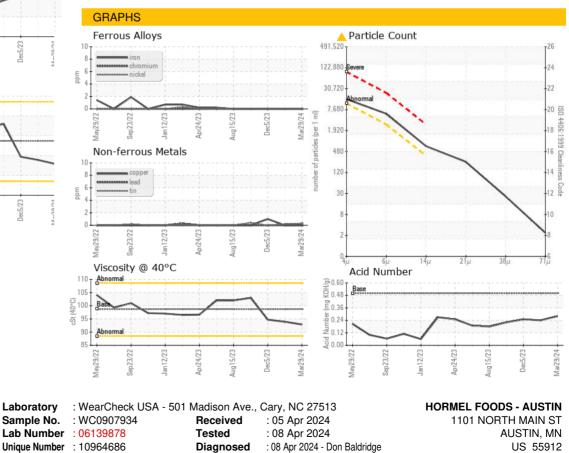
Jan 12/23

Apr24/23

May29/22

Sen 23/22

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	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	>.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
FLUID PROPERT Visc @ 40°C	IES cSt	method ASTM D445	limit/base 98.7	current 92.9	history1 93.9	history2 94.7
	cSt					
Visc @ 40°C	cSt	ASTM D445	98.7	92.9	93.9	94.7



Unique Number : 10964686 Test Package : IND 2 (Additional Tests: PrtCount) Certificate 12367

Dec5/23 -

Aug15/23

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.

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

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