

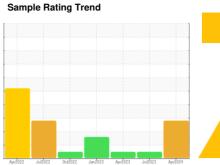
## **OIL ANALYSIS REPORT**

# **VACUUM PUMP**

# **B70036 - BUSCH VACUUM PUMP - MARLEN 2**

Vacuum Pump

BUSCH R-590 PUMP OIL (--- GAL)





### **DIAGNOSIS**

#### Recommendation

We advise that you check for the source of water entry. 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 moderate amount of particulates present in the oil. There is a moderate concentration of water present in the oil.

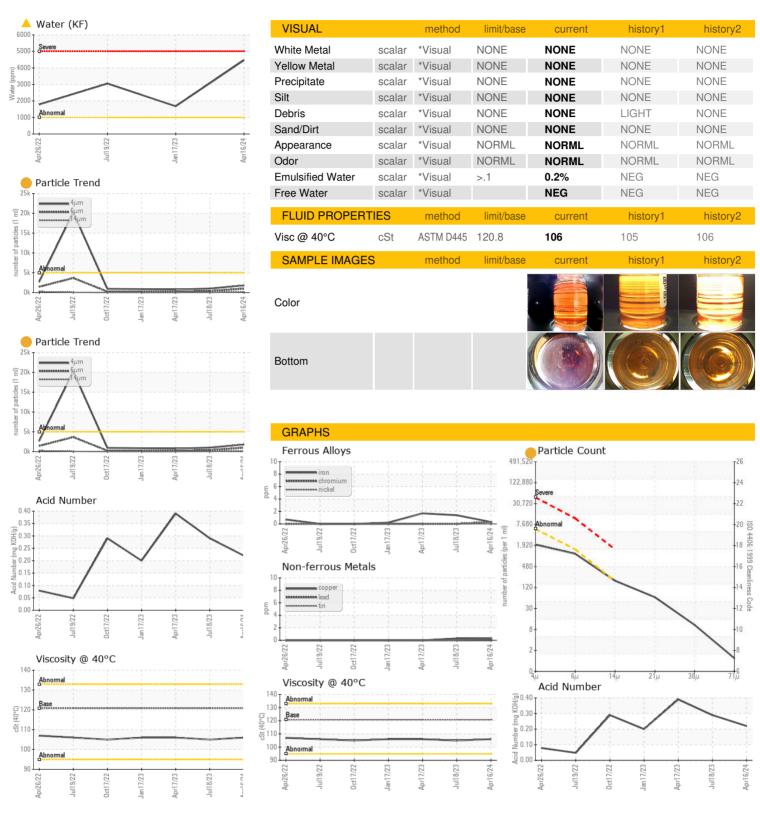
#### **Fluid Condition**

The AN level is acceptable for this fluid.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0872486	WC0814170	WC0755366
Sample Date		Client Info		16 Apr 2024	18 Jul 2023	17 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	1	2
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	<1	0
Tin	ppm	ASTM D5185m	>20	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		675	476	497
Zinc	ppm	ASTM D5185m		28	40	24
Sulfur	ppm	ASTM D5185m		781	509	488
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	8	3	4
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>.1	<u> </u>		
ppm Water	ppm	ASTM D6304	>1000	<u>4470</u>		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1792	1024	785
Particles >6µm		ASTM D7647		976	370	214
Particles >14µm		ASTM D7647	>160	<u> </u>	40	15
Particles >21µm		ASTM D7647		<u> </u>	14	5
Particles >38µm		ASTM D7647	>10	9	4	0
Dawkalaa 71		ASTM D7647	>3	1	2	0
Particles >71µm						
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>18/17/15</b>	17/16/12	17/15/11
·	ATION	ISO 4406 (c)	>19/17/14 limit/base	18/17/15 current	17/16/12 history1	17/15/11 history2



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No.

: WC0872486 Lab Number : 06157672 Unique Number : 10993095

Received

: 23 Apr 2024 **Tested** : 29 Apr 2024 Diagnosed : 29 Apr 2024 - Jonathan Hester

Test Package : IND 2 ( Additional Tests: KF, PrtCount ) 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)

**PAPILLION FOODS** 10808 S 132ND ST OMAHA, NE US 68138

Contact: NEIL ARIANO njariano@hormel.com

T:

F:

Submitted By: NEIL ARIANO