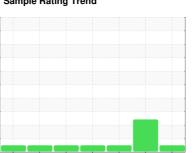


# **OIL ANALYSIS REPORT**

### Sample Rating Trend



**NORMAL** 



# BUSCH F4/L54 (S/N CHM120450163)

**Vacuum Pump** 

**USPI VAC 100 (--- GAL)** 

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

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

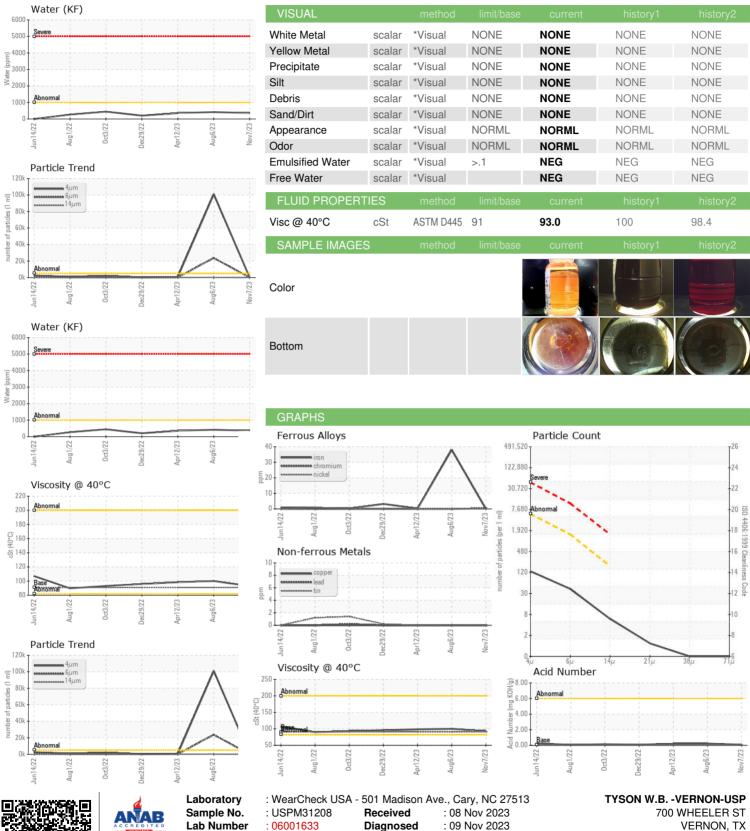
### **Fluid Condition**

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

		Jun2022	Aug2022 Oct2022	Dec2022 Apr2023 Aug2023	Nov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM31208	USPM29127	USPM27964
Sample Date		Client Info		07 Nov 2023	06 Aug 2023	12 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	<b>▲</b> 38	<1
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	0	0
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	0	<1	0	<1
Calcium	ppm	ASTM D5185m	0	<1	0	0
Phosphorus	ppm	ASTM D5185m	1800	624	720	679
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	0	0	0	14
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	4	4
Sodium	ppm	ASTM D5185m	7.0	0	2	0
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304		0.035	0.042	0.035
ppm Water	ppm	ASTM D6304	>1000	354.9	420.6	355.3
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	115	▲ 100937	770
Particles >6µm		ASTM D7647	>1300	36	<u>▲</u> 23723	236
Particles >14µm		ASTM D7647	>160	5	<u>^</u> 239	14
Particles >21µm		ASTM D7647	>40	1	7	2
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	14/12/10	<u>\$\text{4}\text{22}\text{15}\$</u>	17/15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.085	0.23	0.199



## **OIL ANALYSIS REPORT**







Certificate L2367

Lab Number **Unique Number** Test Package

: 06001633 : 10729993 : IND 2

: 09 Nov 2023 Diagnosed Diagnostician

: Doug Bogart

US 76384 Contact: RUSSEL SCOTT

Contact/Location: RUSSEL SCOTT - TYSVER

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)

T: (940)553-2747 F: (940)552-2196