

### **OIL ANALYSIS REPORT**

### Sample Rating Trend



# BUSCH CV9 MIDDLE EXP PRIMARY (S/N PK0529 - M1305 C/B)

Component

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

## **Vacuum Pump**

### DIAGNOSIS

#### 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**

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

		ug2018 May20	119 Nov2019 Jul2020 Fe	2021 Aug2021 Mar2022 Oct2022	Apr2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM29203	USPM28711	USPM26192
Sample Date		Client Info		15 Aug 2023	20 Apr 2023	12 Jan 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	5	9	19
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	0	0
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	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	<1	0
Magnesium	ppm	ASTM D5185m	0	<1	1	0
Calcium	ppm	ASTM D5185m	0	<1	<1	0
Phosphorus	ppm	ASTM D5185m	1800	956	383	684
Zinc	ppm	ASTM D5185m	0	17	<1	0
Sulfur	ppm	ASTM D5185m	0	0	38	53
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	6	11	12
Sodium	ppm	ASTM D5185m		6	1	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304		0.123	0.006	0.004
ppm Water	ppm	ASTM D6304	>.1	1236.8	65.5	41.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Doutinion . Aum		ACTM D7647	. F000	E76		100

ASTM D7647 >5000

ASTM D7647 >1300

ASTM D7647 >160

ASTM D7647 >40

ASTM D7647 >10

ASTM D7647 >3

mg KOH/g ASTM D8045 0.05

ISO 4406 (c) >19/17/14

576

186

21

8

3

1

0.83

16/15/12

Particles >4µm

Particles >6µm

Particles >14µm

Particles >21µm

Particles >38µm

Particles >71µm

Oil Cleanliness

Acid Number (AN)

FLUID DEGRADATION

0.09

168

53

4

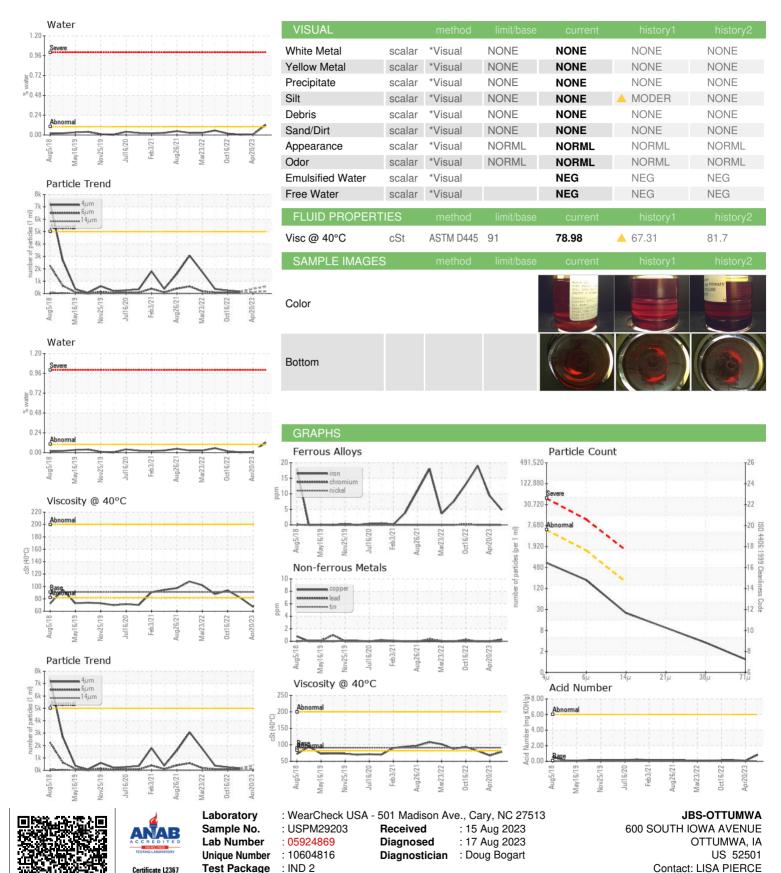
0

15/13/9

0.16



### **OIL ANALYSIS REPORT**



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)

Certificate L2367

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