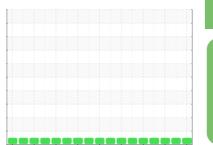


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

BUSCH CARNEB 31 VAC (S/N 4051531)

Component **Pump**

USPI VAC 100 (--- GAL)

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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.

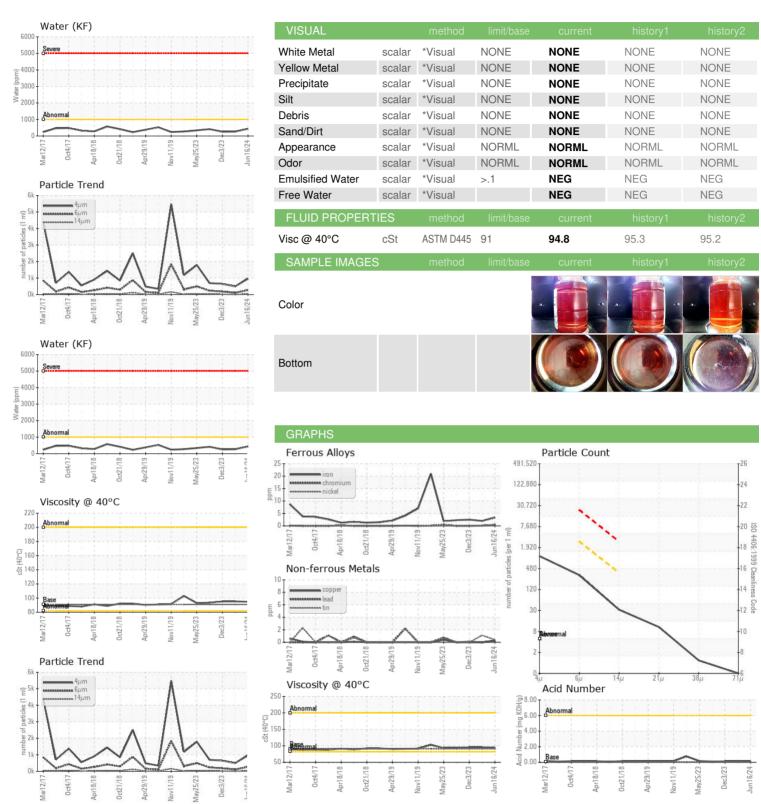
Fluid Condition

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

		/lar2017 Oct2	017 Apr2018 Oct2018	Apr2019 Nov2019 May2023 Dec	2023 Jun202	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM37733	USPM30410	USPM31500
Sample Date		Client Info		16 Jun 2024	13 Mar 2024	03 Dec 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	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	3	2	2
Chromium	ppm	ASTM D5185m	>5	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>3	<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>7	0	0	1
Lead	ppm	ASTM D5185m	>12	<1	0	0
Copper	ppm	ASTM D5185m	>30	<1	0	<1
Tin	ppm	ASTM D5185m	>9	<1	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	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	<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	1800	1282	1279	1448
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	0	47	79	47
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	8	5	6
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	2	1
Water	%	ASTM D6304	>.1	0.043	0.026	0.025
ppm Water	ppm	ASTM D6304	>1000	435	266	253
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		959	495	639
Particles >6µm		ASTM D7647	>2500	273	108	182
Particles >14µm		ASTM D7647	>320	28	6	16
Particles >21µm		ASTM D7647	>80	9	1	6
Particles >38μm		ASTM D7647	>20	1	0	2
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	17/15/12	16/14/10	16/15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.13	0.14	0.12



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: USPM37733 Lab Number : 06211638 Unique Number : 11084502

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024 **Tested** : 18 Jun 2024 Diagnosed : 20 Jun 2024 - Doug Bogart

Test Package : IND 2

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

 st - 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)

F:

Report Id: CARNEB [WUSCAR] 06211638 (Generated: 06/23/2024 01:23:16) Rev: 1

Contact/Location: SERVICE MANAGER - CARNEB

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CARGILL FOODS

NEBRASKA CITY, NE

Contact: SERVICE MANAGER