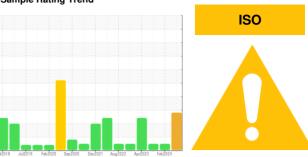


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

BUSCH 7 VACUUM

Component Pump

USPI MAX FG VAC 100 (--- GAL)

DIAGNOSIS

Recommendation

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

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.

		JetŽ018 Jul2	019 Feb2020 Sep2020	Dec2021 Aug2022 Apr2023	Feb2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP224744	USPM30948	USP243713
Sample Date		Client Info		09 Jun 2024	08 Feb 2024	04 Jun 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				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	0	3	<1
Chromium	ppm	ASTM D5185m	>5	0	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	0	0	0
Lead	ppm	ASTM D5185m	>12	0	0	0
Copper	ppm	ASTM D5185m	>30	0	<1	<1
Tin	ppm	ASTM D5185m	>9	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
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		3	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		4	10	1151
Zinc	ppm	ASTM D5185m		4	4	0
Sulfur	ppm	ASTM D5185m		47	55	44
CONTAMINANTS		method	limit/base			history2
				current	history1	
Silicon	ppm	ASTM D5185m	>60	16	3	4
Sodium	ppm	ASTM D5185m		<1	<1	2
Potassium	ppm	ASTM D5185m		3	0	1
Water	%	ASTM D6304		0.040	0.022	0.016
ppm Water	ppm	ASTM D6304	>1000	402	223	166.6
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u>^</u> 21571		
Particles >6µm		ASTM D7647	>1300	<u>^</u> 6977		
Particles >14µm		ASTM D7647	>160	654		
Particles >21µm		ASTM D7647	>40	<u> 181</u>		
Particles >38μm		ASTM D7647	>10	<u>^</u> 21		
Particles >71µm		ASTM D7647	>3	<u>^</u> 8		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>22/20/17</u>		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.061		



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number : 06204661 Unique Number : 11072122

: USP224744 Test Package : IND 2

Received : 10 Jun 2024 **Tested** : 12 Jun 2024

Diagnosed : 12 Jun 2024 - Doug Bogart

MIDDLESBORO, KY LIS Contact: SERVICE MANAGER

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:

F: