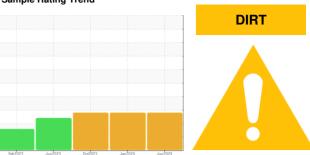


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

BUSCH LINE 10 (S/N C4888)

Vacuum Pump

USPI VAC 100 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal.

Fluid Condition

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

		Feb2023	Jun2023	Oct2023 Jan 2024	Jun 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36332	USPM30734	USPM29959
Sample Date		Client Info		02 Jun 2024	23 Jan 2024	09 Oct 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	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2	5	4
Chromium	ppm	ASTM D5185m	>20	0	<1	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	0	4	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	<1	0
Tin	ppm	ASTM D5185m	>20	0	0	<1
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	<1
Barium	ppm	ASTM D5185m	0	0	1	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	0	0	0	<1
Calcium	ppm	ASTM D5185m	0	0	<1	1
Phosphorus	ppm	ASTM D5185m	1800	1107	1171	1320
Zinc	ppm	ASTM D5185m	0	0	4	2
Sulfur	ppm	ASTM D5185m	0	2	0	35
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	42	<u>46</u>	△ 50
Sodium	ppm	ASTM D5185m		4	0	3
Potassium	ppm	ASTM D5185m	>20	0	1	0
Water	%	ASTM D6304	>.1	0.045	0.023	0.042
ppm Water	ppm	ASTM D6304	>1000	460	233	429.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	<u> </u>	<u> </u>
Particles >6µm		ASTM D7647	>1300	2795	1883	<u>^</u> 2550
Particles >14µm		ASTM D7647	>160	42	21	28
Particles >21µm		ASTM D7647	>40	4	6	5
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	<u></u> 21/18/12	<u>△</u> 21/19/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.19	0.18	0.27



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

: USPM36332 Lab Number : 06197678 Unique Number : 11059801 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jun 2024 **Tested**

: 04 Jun 2024 Diagnosed : 05 Jun 2024 - Doug Bogart

JUNCTION CITY, KS US 66441 Contact: SERVICE MANAGER

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)

T:

F: