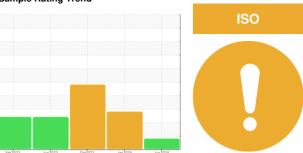


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

BUSCH LINE 13 (S/N U154500064)

Vacuum Pump

USPI VAC 100 (--- QTS)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

Fluid Condition

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

		Feb 2023	Jun2023	Oct2023 Jan2024	Jun 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36330	USPM30737	USPM29955
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				ATTENTION	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	11	<u>^</u> 28
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	<1
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	0
Barium	ppm	ASTM D5185m	0	0	1	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	0	0	<1	2
Calcium	ppm	ASTM D5185m	0	0	<1	6
Phosphorus	ppm	ASTM D5185m	1800	1037	1133	1310
Zinc	ppm	ASTM D5185m	0	0	4	7
Sulfur	ppm	ASTM D5185m	0	0	0	40
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	20	<u></u> 54	<u> </u>
Sodium	ppm	ASTM D5185m		1	15	252
Potassium	ppm	ASTM D5185m	>20	0	3	30
Water	%	ASTM D6304	>.1	0.042	0.024	0.035
ppm Water	ppm	ASTM D6304	>1000	428	243	359.6
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	7139	△ 35663	
Particles >6µm		ASTM D7647	>1300	638	4485	
Particles >14µm		ASTM D7647	>160	36	30	
Particles >21µm		ASTM D7647	>40	10	5	
Particles >38µm		ASTM D7647	>10	1	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	0 20/16/12	<u>22/19/12</u>	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.16	0.16	0.26



OIL ANALYSIS REPORT







Certificate 12367

Report Id: ARMJUN [WUSCAR] 06197680 (Generated: 06/07/2024 04:12:17) Rev: 1

Sample No. Lab Number

Laboratory : USPM36330 : 06197680

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jun 2024 **Tested** : 04 Jun 2024

Unique Number : 11059803 Diagnosed : 05 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)

US 66441

T:

F:

JUNCTION CITY, KS

Contact: SERVICE MANAGER