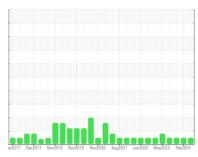


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

BUSCH VM2 / VP-1

Component Pump

USPI VAC 100 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

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.

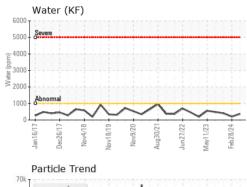
Fluid Condition

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

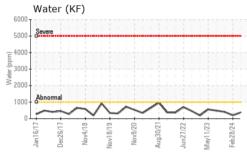
		in2017 Dec20	17 Nov2018 Nov2019 No	v2020 Aug2021 Jun2022 May202	23 Feb2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006315	USPM30298	USPM31361
Sample Date		Client Info		15 Apr 2024	28 Feb 2024	26 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil 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	0	4	7
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	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	<1
Lead	ppm	ASTM D5185m	>12	0	0	<1
Copper	ppm	ASTM D5185m	>30	0	0	0
Tin	ppm	ASTM D5185m	>9	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	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	0	0
Magnesium	ppm	ASTM D5185m	0	0	<1	1
Calcium	ppm	ASTM D5185m	0	0	0	2
Phosphorus	ppm	ASTM D5185m	1800	919	912	1031
Zinc	ppm	ASTM D5185m	0	0	2	0
Sulfur	ppm	ASTM D5185m	0	9	0	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	4	1	2
Sodium	ppm	ASTM D5185m		2	1	1
Potassium	ppm	ASTM D5185m	>20	13	0	2
Water	%	ASTM D6304		0.036	0.020	0.040
ppm Water	ppm	ASTM D6304		360	209	409
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1736	392	479
Particles >6µm		ASTM D7647	>1300	345	116	156
Particles >14µm		ASTM D7647	>160	25	12	15
Particles >21µm		ASTM D7647	>40	5	4	3
Particles >38µm		ASTM D7647	>10	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/12	16/14/11	16/14/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.34	0.27	0.22

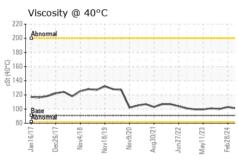


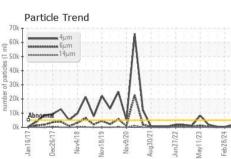
OIL ANALYSIS REPORT

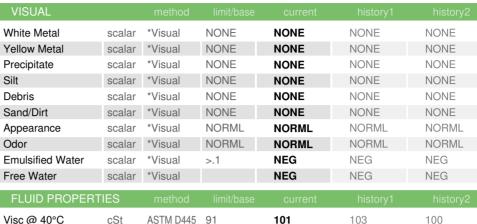


60k -	4	μm μm		- 1			
50k	1	4μm					
30k -					1		
				A IA	1		
20k -			\wedge	W	11		
20k 10k 0k	Dec28/17	Nov4/18	Vav18/19	Nov9/20	1	Jun27/22	Feb28/24







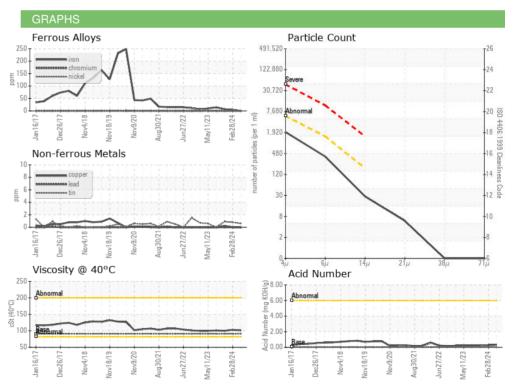


SAMPLEIMAGE	9	method			hietory1	hietory2
Visc @ 40°C	cSt	ASTM D445	91	101	103	100

Color











Certificate 12367

Laboratory Sample No.

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USP0006315 Lab Number : 06150372 Unique Number : 10980450

Received : 16 Apr 2024 **Tested** : 17 Apr 2024

Diagnosed : 17 Apr 2024 - Doug Bogart TYSON-DAKOTA CITY-PRO

P.O. BOX 515 DAKOTA CITY, NE US 68731

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)

F: (605)235-2960