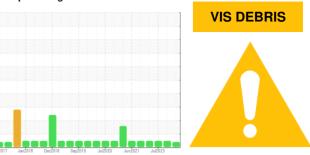


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

BUSCH PR5-500 S1

Component Pump

USPI VAC 100 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

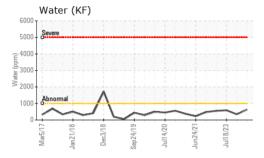
Fluid Condition

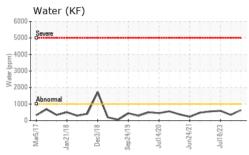
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

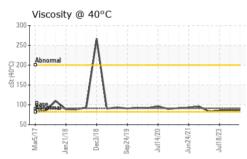
1a/2017 Jan/2018 Dec/2018 Sep;2019 Jul/2020 Jun/2021 Jul/2023							
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		USPM37787	USPM30852	USPM27889	
Sample Date		Client Info		01 Jun 2024	17 Nov 2023	18 Jul 2023	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	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	<1	<1	
Chromium	ppm	ASTM D5185m	>5	0	<1	0	
Nickel	ppm	ASTM D5185m	>5	<1	0	0	
Titanium	ppm	ASTM D5185m	>3	0	<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>7	<1	1	<1	
Lead	ppm	ASTM D5185m	>12	0	<1	0	
Copper	ppm	ASTM D5185m	>30	2	<1	0	
Tin	ppm	ASTM D5185m	>9	<1	<1	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	<1	0	0	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	0	0	<1	0	
Manganese	ppm	ASTM D5185m		<1	0	0	
Magnesium	ppm	ASTM D5185m	0	<1	0	2	
Calcium	ppm	ASTM D5185m	0	0	0	0	
Phosphorus	ppm	ASTM D5185m	1800	1094	898	1010	
Zinc	ppm	ASTM D5185m	0	0	0	<1	
Sulfur	ppm	ASTM D5185m	0	16	0	99	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>60	5	4	4	
Sodium	ppm	ASTM D5185m		1	0	0	
Potassium	ppm	ASTM D5185m	>20	3	1	1	
Water	%	ASTM D6304		0.063	0.034	0.059	
ppm Water	ppm	ASTM D6304	>1000	634	347	590.6	
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2	
Particles >4μm		ASTM D7647	>5000		841	1904	
Particles >6µm		ASTM D7647	>1300		109	170	
Particles >14μm		ASTM D7647	>160		7	6	
Particles >21μm		ASTM D7647	>40		2	3	
Particles >38μm		ASTM D7647	>10		0	1	
Particles >71μm		ASTM D7647	>3		0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14		17/14/10	18/15/10	
Oil Cleanliness FLUID DEGRADA	TION	ISO 4406 (c)	>19/17/14 limit/base	current	17/14/10 history1	18/15/10 history2	



OIL ANALYSIS REPORT







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
I LOID I NOFER HES		methou	minit/Dase	Cullelli	HISTOLAL	HISTOLYZ

SAMPLE IMAGES	method	limit/base	current	history1	history2

ASTM D445 91

86.2

Color

Visc @ 40°C



cSt

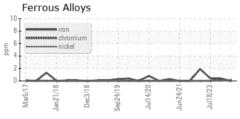


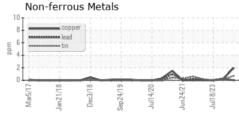
86.7

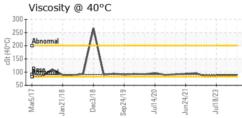


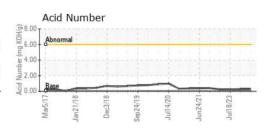
85.5

GRAPHS













Certificate 12367

Laboratory Sample No.

: USPM37787 Lab Number : 06214047 Unique Number : 11086911 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jun 2024 **Tested**

: 21 Jun 2024 Diagnosed : 21 Jun 2024 - Doug Bogart

2101 West Sixth Emporia, KS US 66801

T: (620)343-3640

F: (620)340-1253

TYSON-Emporia-USP

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)