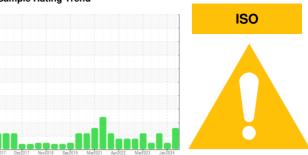


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

BUSCH CONVERSION P-21 CV-16 VACUUM (S/N U144700130) Pump

USPI 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.

		lar2017 Dec2	017 Nov2018 Sep2019	Mar2021 Apr2022 Mar2023	Jan2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36789	USPM30662	USPM31065
Sample Date		Client Info		22 Apr 2024	17 Jan 2024	18 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	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	40	9	13
Chromium	ppm	ASTM D5185m	>5	<1	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	<1	<1	<1
Lead	ppm	ASTM D5185m	>12	0	0	0
Copper	ppm	ASTM D5185m	>30	0	0	0
Tin	ppm	ASTM D5185m	>9	<1	<1	<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	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	0	<1	1	0
Calcium	ppm	ASTM D5185m	0	<1	1	0
Phosphorus	ppm	ASTM D5185m	1800	916	924	939
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	0	0	13	6
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	3	2	2
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>.1	0.053	0.026	0.037
ppm Water	ppm	ASTM D6304	>1000	537	262	370.7
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	4400	8211
Particles >6µm		ASTM D7647	>1300	<u>22395</u>	1173	2174
Particles >14µm		ASTM D7647	>160	<u> </u>	125	94
Particles >21µm		ASTM D7647		15	37	22
Particles >38µm		ASTM D7647	>10	1	2	1
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>4</u> 24/22/15	19/17/14	0 20/18/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.25	0.21	0.22



OIL ANALYSIS REPORT





220 200

180

(+0°C) (+0°C) 140 120

100 80



Certificate 12367

Laboratory Sample No.

Lab Number : 06157730 Unique Number : 10993153 Test Package : IND 2

250

200 £ 150

: USPM36789

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Apr 2024

Tested : 24 Apr 2024 Diagnosed

: 25 Apr 2024 - Jonathan Hester

Acid Number

0.00 (MB KOH/g)

P 0.00

4.00

US 28392 Contact: SERVICE MANAGER

SMITHFIELD FOOD - TARHEEL

15855 HWY. 87 WEST

TARHEEL, NC

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.

Viscosity @ 40°C

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:

F: