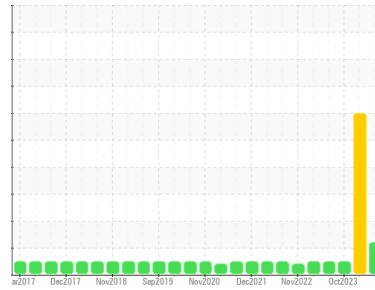




OIL ANALYSIS REPORT

Sample Rating Trend



SEDIMENT



Machine Id
BUSCH CONVERSION P-05 CV-12 VACUUM (S/N U094605860)
 Component
Pump
 Fluid
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. There is a moderate amount of visible silt present in the sample.

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	USPM36778	USPM30670	USPM31075
Sample Date	Client Info	22 Apr 2024	17 Jan 2024	18 Oct 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	SEVERE	NORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >90	11	---	0
Chromium	ppm	ASTM D5185m >5	<1	---	0
Nickel	ppm	ASTM D5185m >5	0	---	0
Titanium	ppm	ASTM D5185m >3	0	---	0
Silver	ppm	ASTM D5185m >3	0	---	0
Aluminum	ppm	ASTM D5185m >7	<1	---	0
Lead	ppm	ASTM D5185m >12	0	---	0
Copper	ppm	ASTM D5185m >30	0	---	0
Tin	ppm	ASTM D5185m >9	<1	---	<1
Vanadium	ppm	ASTM D5185m	0	---	0
Cadmium	ppm	ASTM D5185m	0	---	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 0	0	---	0
Barium	ppm	ASTM D5185m 0	0	---	0
Molybdenum	ppm	ASTM D5185m 0	0	---	0
Manganese	ppm	ASTM D5185m	0	---	0
Magnesium	ppm	ASTM D5185m 0	1	---	0
Calcium	ppm	ASTM D5185m 0	1	---	0
Phosphorus	ppm	ASTM D5185m 1800	789	---	975
Zinc	ppm	ASTM D5185m 0	0	---	0
Sulfur	ppm	ASTM D5185m 0	0	---	9

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >60	9	---	11
Sodium	ppm	ASTM D5185m	<1	---	0
Potassium	ppm	ASTM D5185m >20	2	---	0
Water	%	ASTM D6304 >.1	0.040	▲ 99	0.027
ppm Water	ppm	ASTM D6304 >1000	406	---	275.1

FLUID CLEANLINESS

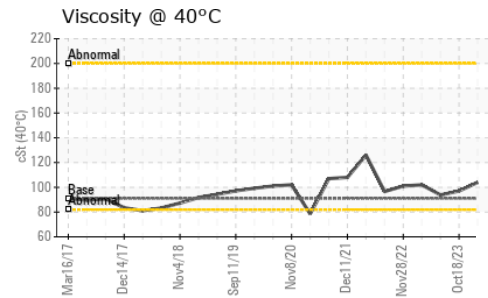
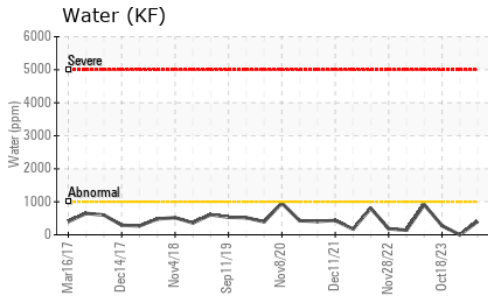
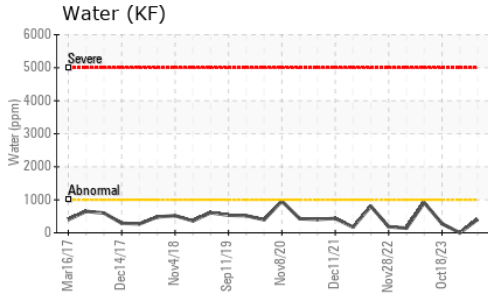
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	---	---	1213
Particles >6µm	ASTM D7647 >1300	---	---	371
Particles >14µm	ASTM D7647 >160	---	---	31
Particles >21µm	ASTM D7647 >40	---	---	8
Particles >38µm	ASTM D7647 >10	---	---	1
Particles >71µm	ASTM D7647 >3	---	---	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	---	---	17/16/12

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.05	0.064	---	0.21



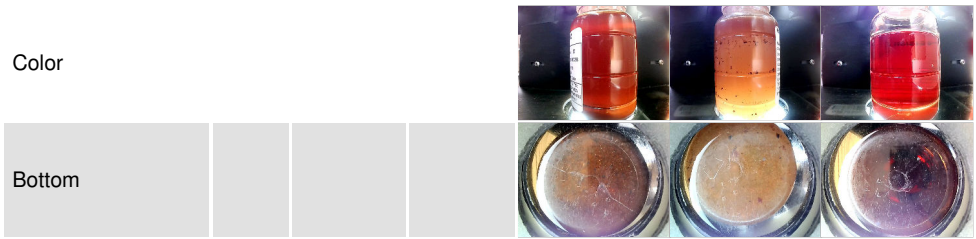
OIL ANALYSIS REPORT



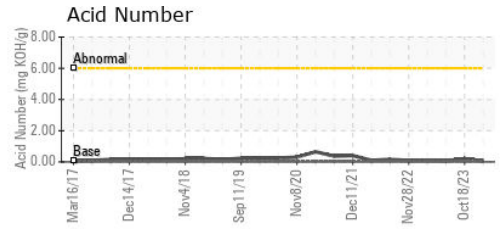
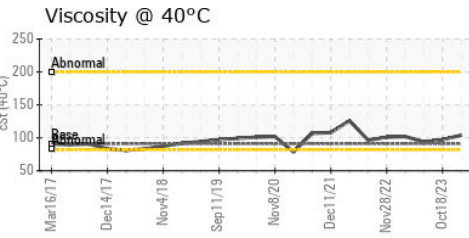
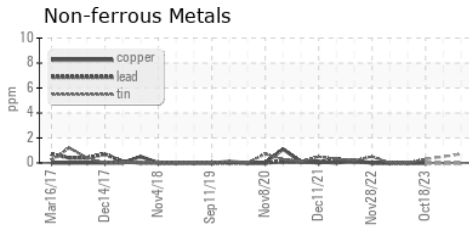
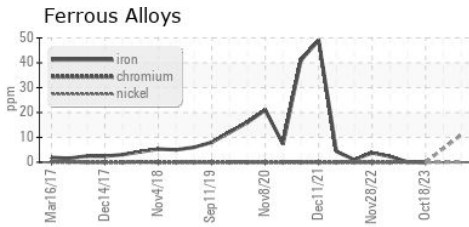
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	▲ MODER	▲ HEAVY	NONE
Debris	scalar	*Visual	▲ MODER	▲ HEAVY	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	0.2%
Free Water	scalar	*Visual		NEG	▲ 99%

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 91	104	---	97.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM36778
Lab Number : 06157725
Unique Number : 10993148
Test Package : IND 2
Received : 23 Apr 2024
Tested : 25 Apr 2024
Diagnosed : 25 Apr 2024 - Jonathan Hester

SMITHFIELD FOOD - TARHEEL
 15855 HWY. 87 WEST
 TARHEEL, NC
 US 28392
 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)