

PROBLEM SUMMARY

Sample Rating Trend

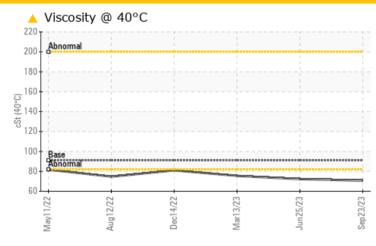
VISCOSITY

BUSCH VP-2A (S/N C6815)

Vacuum Pump

USPI VAC 100 (--- GAL)

COMPONENT CONDITION SUMMARY



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.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ATTENTION	ABNORMAL		
Debris	scalar	*Visual	NONE	MODER	NONE	NONE		
Visc @ 40°C	cSt	ASTM D445	91	70.7	A 72.2	A 75.5		

Customer Id: TYSAMAPRO Sample No.: USPM29742 Lab Number: 05961774 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

25 Jun 2023 Diag: Doug Bogart

VISCOSITY



Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The oil viscosity is lower than normal. Confirmed. The AN level is acceptable for this fluid.



13 Mar 2023 Diag: Doug Bogart

DIRT



We recommend an early resample to monitor this condition. The iron level is abnormal. Elemental level of silicon (Si) above normal. The amount and size of particulates present in the system are acceptable. The oil viscosity is lower than normal. Confirmed. The AN level is acceptable for this fluid.

view report

14 Dec 2022 Diag: Jonathan Hester

VISCOSITY



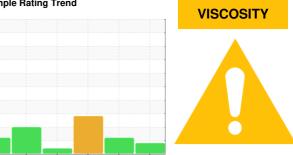
No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The oil viscosity is lower than normal. The AN level is acceptable for this fluid.





OIL ANALYSIS REPORT

Sample Rating Trend



BUSCH VP-2A (S/N C6815)

Vacuum 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.

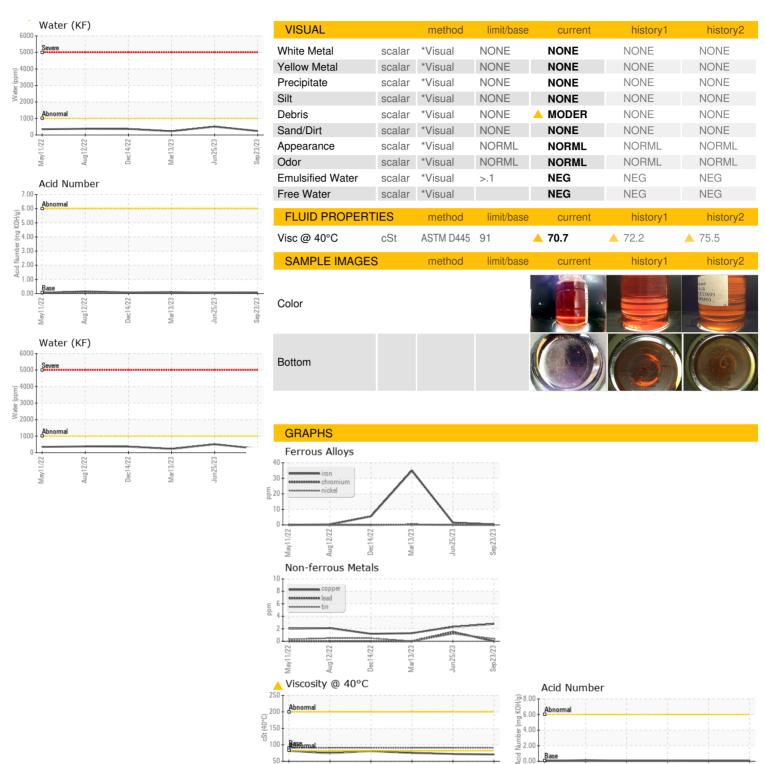
▲ Fluid Condition

The oil viscosity is lower than normal. Confirmed. The AN level is acceptable for this fluid.

		May2022	Aug2022 Dec2022	Mar2023 Jun2023	Sep2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM29742	USPM27145	USPM27568
Sample Date		Client Info		23 Sep 2023	25 Jun 2023	13 Mar 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	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	2	△ 35
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	1	<1
Lead	ppm	ASTM D5185m	>20	0	2	0
Copper	ppm	ASTM D5185m	>20	3	2	1
Tin	ppm	ASTM D5185m	>20	<1	1	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	0	<1	0	0
Calcium	ppm	ASTM D5185m	0	<1	0	0
Phosphorus	ppm	ASTM D5185m	1800	554	576	544
Zinc	ppm	ASTM D5185m	0	0	0	2
Sulfur	ppm	ASTM D5185m	0	244	130	0
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	11	12	1 9
Sodium	ppm	ASTM D5185m		<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	2	<1
Water	%	ASTM D6304	>.1	0.024	0.050	0.023
ppm Water	ppm	ASTM D6304	>1000	241.5	506.6	231.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000		△ 5609	790
Particles >6µm		ASTM D7647	>1300		1209	161
Particles >14µm		ASTM D7647	>160		68	5
Particles >21µm		ASTM D7647	>40		11	1
Particles >38µm		ASTM D7647	>10		1	0
Particles >71µm		ASTM D7647	>3		1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14		<u>^</u> 20/17/13	17/15/10
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.081	0.06	0.102



OIL ANALYSIS REPORT







Report Id: TYSAMAPRO [WUSCAR] 05961774 (Generated: 10/04/2023 19:50:16) Rev: 1

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USPM29742

1/22

: 05961774 : 10668325

Aug12/22

Received Diagnosed

Dec14/22

: 27 Sep 2023 Diagnostician : Doug Bogart

Mar13/23

TYSON - AMARILLO-PRO : 26 Sep 2023

Dec14/22

Aug12/22

AMARILLO, TX

Contact: SERVICE MANAGER

Test Package : IND 2 Certificate L2367 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)

T: F: