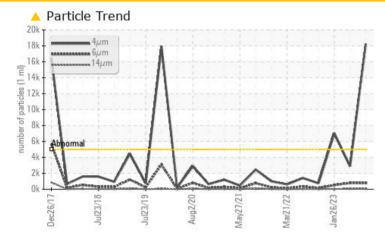


PROBLEM SUMMARY

BUSCH VS-2 PUMP 2 (S/N U152100070)

Pump Fluid USPI VAC 100 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS						
Sample Status		ABN	NORMAL	NORMAL	ATTENTION	
Particles >4µm	ASTM D7647 >	5000 🔺 1	8227	2893	A 7024	
Oil Cleanliness	ISO 4406 (c) >	19/17/14 🔺 2	1/17/13	19/17/13	2 0/16/13	

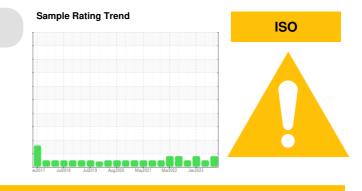
Customer Id: IBPDAK01 Sample No.: USPM29271 Lab Number: 05928286 Test Package: IND 2



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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

11 May 2023 Diag: Doug Bogart



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



26 Jan 2023 Diag: Jonathan Hester



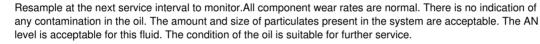
Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







RMAL







OIL ANALYSIS REPORT

BUSCH VS-2 PUMP 2 (S/N U152100070)

Pump

USPI VAC 100 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

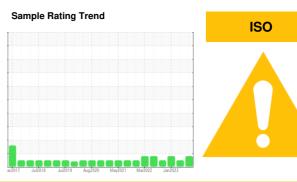
All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 6 microns in size) present in the oil.

Fluid Condition

Increase in AN noted and confirmed. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



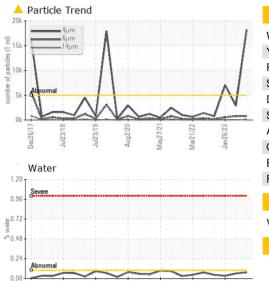
		no otle e el	limit/lease	ou we we had	biotomat	bistow 0
SAMPLE INFORM	ATION	method	limit/base		history1	history2
Sample Number		Client Info		USPM29271	USPM28936	USPM26274
Sample Date		Client Info		19 Aug 2023	11 May 2023	26 Jan 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil 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	35	11	29
Chromium	ppm	ASTM D5185m	>5	0	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	2	<1	2
Lead	ppm	ASTM D5185m	>12	0	0	<1
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm		>9	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	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	2	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	0	<1	<1	0
Calcium	ppm	ASTM D5185m	0	12	9	10
Phosphorus	ppm	ASTM D5185m	1800	1678	1513	1590
Zinc	ppm	ASTM D5185m	0	8	4	10
Sulfur	ppm	ASTM D5185m	0	6	0	15
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	<1	1	<1
Sodium	ppm	ASTM D5185m	00	3	0	2
Potassium	ppm	ASTM D5185m	>20	4	2	<1
Water	%	ASTM D6304		0.075	0.062	0.034
ppm Water	ppm	ASTM D6304		754.2	625.3	347.1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	18227	2893	▲ 7024
Particles >6µm		ASTM D7647		783	799	528
Particles >14µm		ASTM D7647	>160	61	54	41
Particles >21µm		ASTM D7647		21	10	10
Particles >38µm		ASTM D7647	>10	3	1	1
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 21/17/13	19/17/13	2 0/16/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	1.49	0.75	0.92



Acid Number

7 00

OIL ANALYSIS REPORT



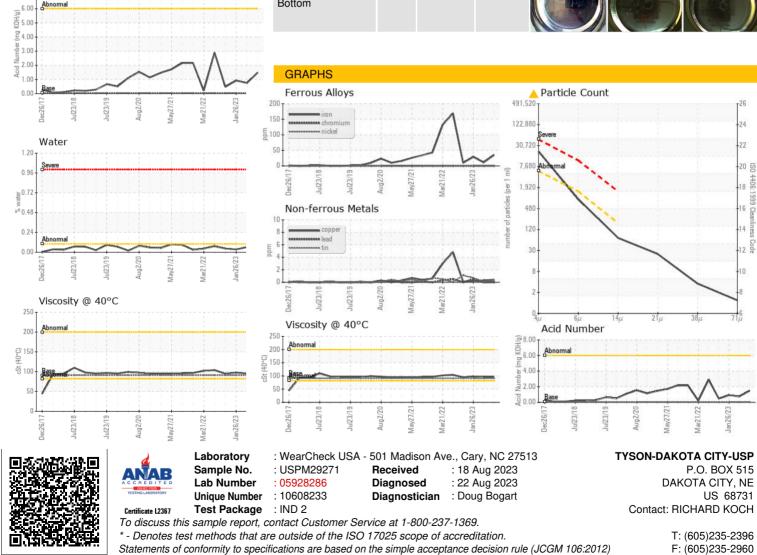
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual		NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	91	97.4	95.4	97.7
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Oslar						

Color

50/92 us



Bottom



Report Id: IBPDAK01 [WUSCAR] 05928286 (Generated: 08/22/2023 12:59:08) Rev: 1

Contact/Location: RICHARD KOCH - IBPDAK01