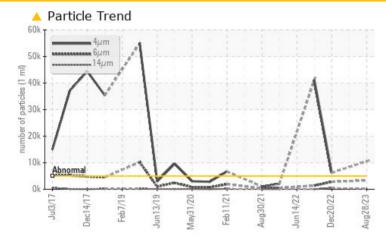


PROBLEM SUMMARY

KF-CV 1-PUMP 1 (S/N U161300130)

Pump Fluid USPI VAC 100 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status			ABNORMAL	SEVERE	ABNORMAL			
Particles >4µm	ASTM D7647	>5000	<u> </u>		6199			
Particles >6µm	ASTM D7647	>1300	A 3320		<u> </u>			
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u> </u>		2 0/19/16			

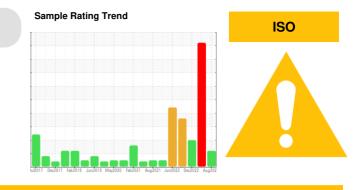
Customer Id: JBSTOL Sample No.: USPM27269 Lab Number: 05937270 Test Package: IND 2



To manage this report scan the QR code

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

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



There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



19 Mar 2023 Diag: Doug Bogart

We advise that you follow the water drain-off procedure for this component and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles and water present in this sample.All component wear rates are normal. Appearance is unacceptable. There is a high concentration of water present in the oil. Excessive free water present. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.



We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WATER



05 Oct 2022 Diag: Doug Bogart

Resample at the next service interval to monitor.All component wear rates are normal. Appearance is hazy. There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a moderate concentration of water present in the oil. The AN level is acceptable for this fluid.







OIL ANALYSIS REPORT

KF-CV 1-PUMP 1 (S/N U161300130)

Pump

USPI VAC 100 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

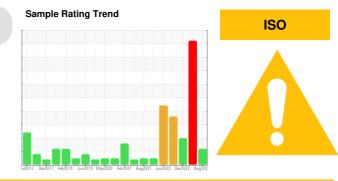
All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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



SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM27269	USPM27541	USPM24439
Sample Date		Client Info		28 Aug 2023	19 Mar 2023	20 Dec 2022
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	SEVERE	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	23	8	0
Chromium	ppm	ASTM D5185m	>5	<1	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	<1	1	<1
Lead	ppm	ASTM D5185m	>12	<1	0	0
Copper	ppm	ASTM D5185m	>30	<1	0	0
Tin	ppm	ASTM D5185m	>9	<1	<1	0
Vanadium	ppm	ASTM D5185m	-	<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	2	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	6	2	0
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	1800	904	1134	1207
Zinc	ppm	ASTM D5185m	0	20	0	0
Sulfur	ppm	ASTM D5185m	0	26	0	20
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	4	6	<1
Sodium	ppm	ASTM D5185m		5	7	<1
Potassium	ppm	ASTM D5185m	>20	3	2	0
Water	%	ASTM D6304		0.096	1.44	0.072
ppm Water	ppm	ASTM D6304	>.1	966.9	14400	723.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 10549		6 199
Particles >6µm		ASTM D7647	>1300	A 3320		▲ 2820
Particles >14µm		ASTM D7647	>160	148		4 97
Particles >21µm		ASTM D7647	>40	24		1 54
Particles >38µm		ASTM D7647	>10	3		5
Particles >71µm		ASTM D7647	>3	1		1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	1 /19/14		▲ 20/19/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	1.59	0.17	0.17



Acid Number

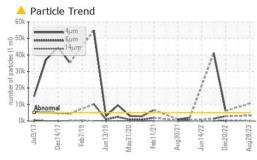
7 00

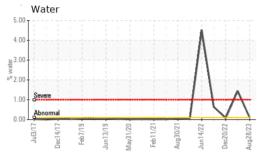
6.00

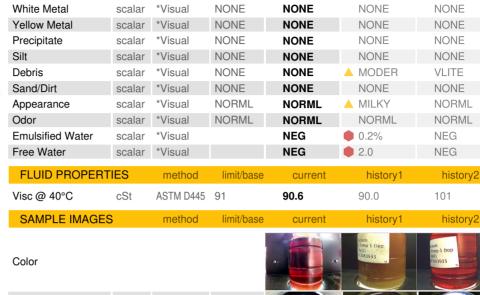
OIL ANALYSIS REPORT

method

VISUAL







limit/base

current

history1

history2

Bottom

