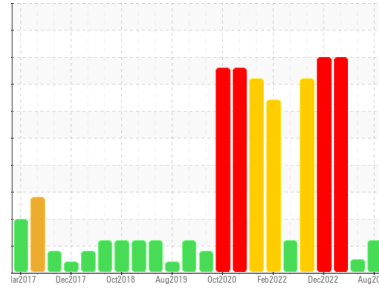




PROBLEM SUMMARY

Sample Rating Trend



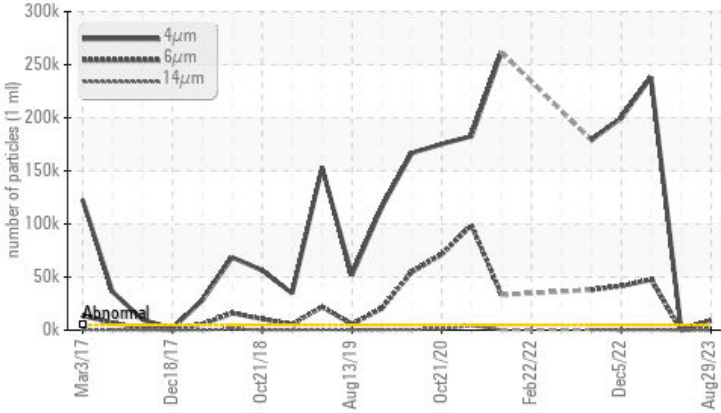
ISO



Machine Id
VM-6-VPPA (S/N G00617)
 Component
Pump
 Fluid
USPI VAC 100 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	SEVERE
Particles >4µm	ASTM D7647	>5000	▲ 8681	645	▲ 238264
Particles >6µm	ASTM D7647	>1300	▲ 2817	211	▲ 47707
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 20/19/13	17/15/12	▲ 25/23/16

Customer Id: TYSJOSPRO
 Sample No.: USPM29443
 Lab Number: 05938990
 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

21 May 2023 Diag: Doug Bogart

NORMAL



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.

view report



29 Dec 2022 Diag: Doug Bogart

WEAR



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. The iron level is severe. 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.

view report



05 Dec 2022 Diag: Doug Bogart

WEAR



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. The iron level is severe. 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.

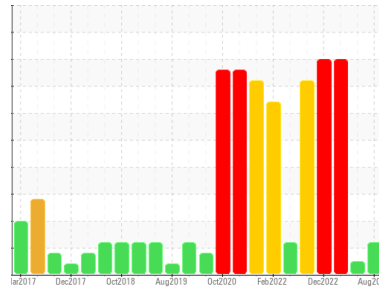
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
VM-6-VPPA (S/N G00617)

Component
Pump
Fluid
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. There is a trace of moisture 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 INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	USPM29443	USPM28132	USPM25495
Sample Date	Client Info	29 Aug 2023	21 May 2023	29 Dec 2022
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	NORMAL	SEVERE

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >90	<1	0	311
Chromium	ppm	ASTM D5185m >5	0	0	<1
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	0	0	2
Lead	ppm	ASTM D5185m >12	0	0	0
Copper	ppm	ASTM D5185m >30	0	0	0
Tin	ppm	ASTM D5185m >9	0	0	<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	2	0	0
Molybdenum	ppm	ASTM D5185m 0	0	0	0
Manganese	ppm	ASTM D5185m	0	0	<1
Magnesium	ppm	ASTM D5185m 0	<1	0	0
Calcium	ppm	ASTM D5185m 0	0	0	2
Phosphorus	ppm	ASTM D5185m 1800	760	804	1313
Zinc	ppm	ASTM D5185m 0	0	0	17
Sulfur	ppm	ASTM D5185m 0	0	0	52

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >60	7	8	11
Sodium	ppm	ASTM D5185m	0	0	80
Potassium	ppm	ASTM D5185m >20	<1	<1	2
Water	%	ASTM D6304	0.102	0.053	0.017
ppm Water	ppm	ASTM D6304 >.1	1021.7	532.8	178.3

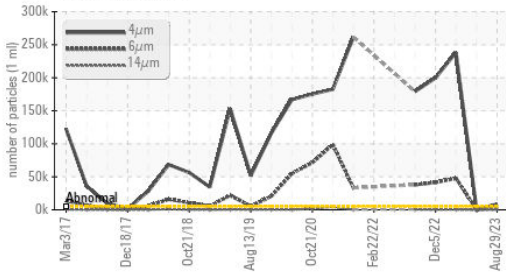
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 8681	645	▲ 238264
Particles >6µm	ASTM D7647 >1300	▲ 2817	211	▲ 47707
Particles >14µm	ASTM D7647 >160	44	28	▲ 448
Particles >21µm	ASTM D7647 >40	4	11	▲ 83
Particles >38µm	ASTM D7647 >10	1	1	10
Particles >71µm	ASTM D7647 >3	0	1	2
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 20/19/13	17/15/12	▲ 25/23/16

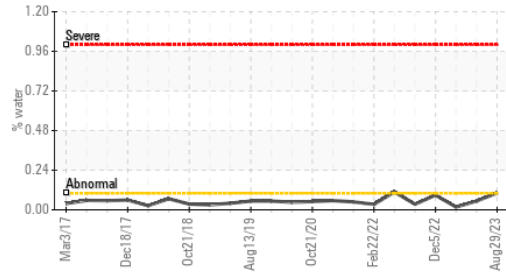
FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.05	0.079	0.136	0.539

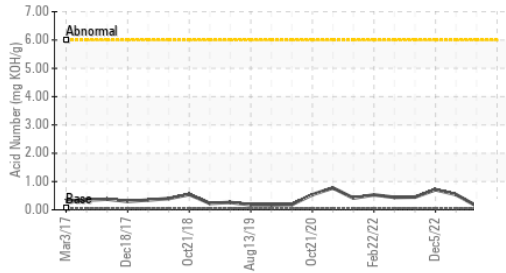
Particle Trend



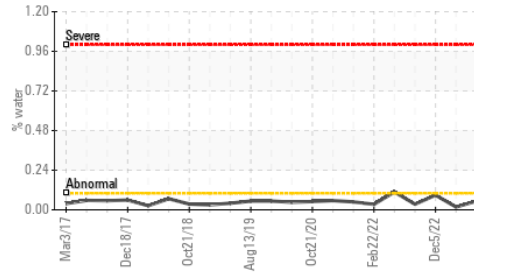
Water



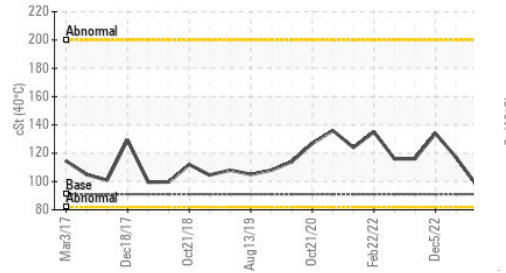
Acid Number



Water



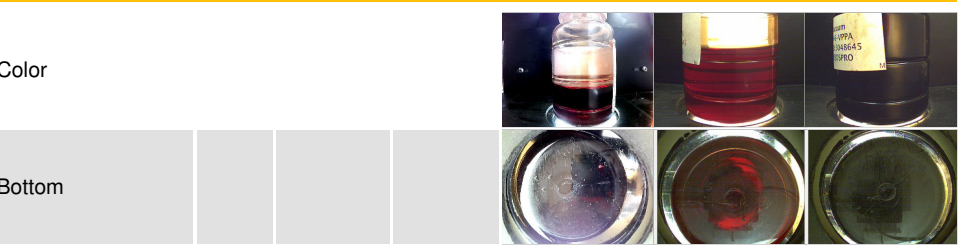
Viscosity @ 40°C



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

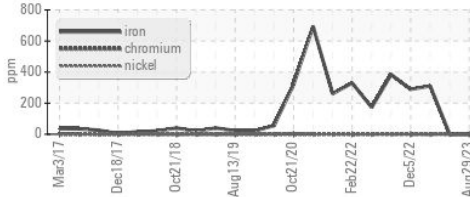
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 91	98.2	97.3	117

SAMPLE IMAGES

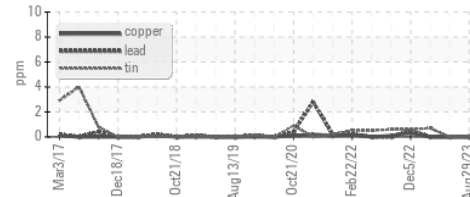


GRAPHS

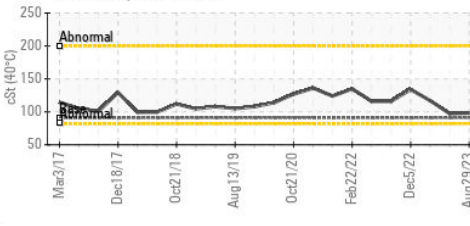
Ferrous Alloys



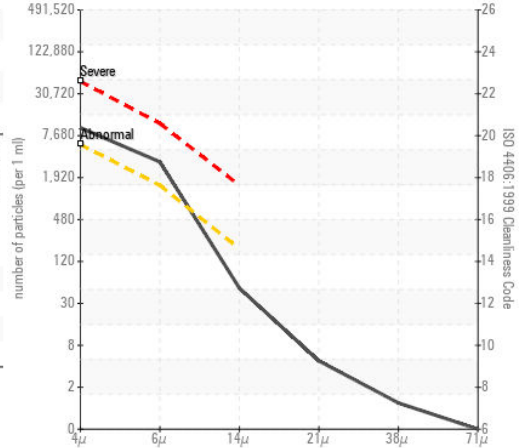
Non-ferrous Metals



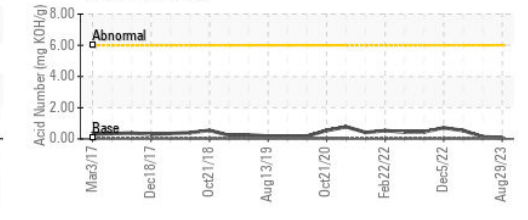
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM29443
Lab Number : 05938990
Unique Number : 10629602
Test Package : IND 2

TYSON - PROCESS/SLAUGHTER - MAIN PLANT
 28424 38TH AVE N
 JOSLIN, IL
 US 61257
 Contact: RICK DUVALL

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: (402)423-6661