

## **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id

# VM-4-VPPS (S/N UO43403167)

Pump

USPI VAC 100 (--- GAL)

DIAGNICOIO

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

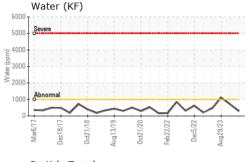
### **Fluid Condition**

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

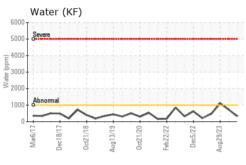
		ar2017 Dec2	017 Oct2018 Aug2019	Oct2020 Feb2022 Dec2022	Aug2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36688	USPM31660	USPM29463
Sample Date		Client Info		15 Apr 2024	26 Dec 2023	29 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	4	0	<1
Chromium	ppm	ASTM D5185m	>5	<1	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	0	0	0
Lead	ppm	ASTM D5185m	>12	0	0	0
Copper	ppm	ASTM D5185m	>30	<1	0	0
Tin	ppm	ASTM D5185m	>9	<1	0	0
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	0	0	2
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	0	<1	0	0
Phosphorus	ppm	ASTM D5185m	1800	792	776	826
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	0	80	29	19
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	24	12	12
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>.1	0.029	0.071	0.111
ppm Water	ppm	ASTM D6304	>1000	293	713	1113.4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2168	<u> </u>	1594
Particles >6µm		ASTM D7647	>1300	672	2407	265
Particles >14µm		ASTM D7647	>160	33	50	19
Particles >21µm		ASTM D7647	>40	4	6	7
Particles >38µm		ASTM D7647	>10	0	0	2
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/17/12	<u>△</u> 21/18/13	18/15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.092	0.092	0.075

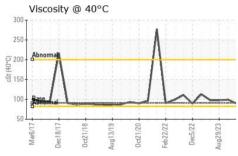


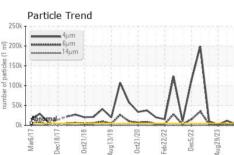
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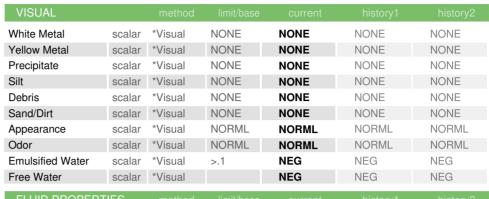


200k - ***	•••••••• 6j.	m m um					
150k -						-/\	
100k			٨		٨		
				\		\ /	1
50k			. /	1	- 1	V	1
150k - 100k - 50k - 0k	onognal - **		$\sqrt{}$	1	<u> </u>	V	Aug29/23





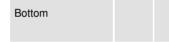




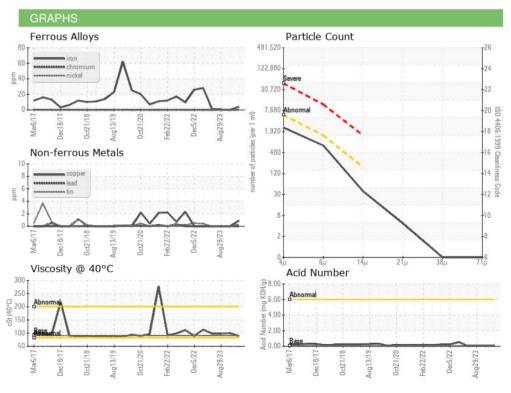
FLUID PROPER	THES	method			riistory i	HISTORYZ
Visc @ 40°C	cSt	ASTM D445	91	89.1	99.4	97.5

SAMPLE IMAGES	method		history2

Color











Certificate 12367

Laboratory Sample No.

Lab Number Unique Number : 10980510 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USPM36688 : 06150432

Received : 16 Apr 2024 **Tested** Diagnosed

: 17 Apr 2024 : 17 Apr 2024 - Doug Bogart

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)

F: (402)423-6661 Contact/Location: RICK DUVALL - TYSJOSPRO

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