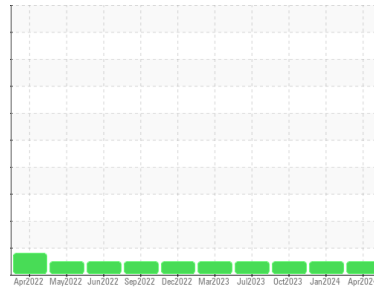




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**LINE 2 QX (S/N C8600)**  
 Component  
**Vacuum 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 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.

### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>USPM6160383</b>	USPM30748	USPM29945
Sample Date	Client Info	<b>24 Apr 2024</b>	27 Jan 2024	08 Oct 2023
Machine Age	hrs Client Info	<b>0</b>	0	0
Oil Age	hrs Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

### WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >20	<b>18</b>	19	21
Chromium	ppm ASTM D5185m >20	<b>0</b>	0	0
Nickel	ppm ASTM D5185m >20	<b>0</b>	0	<1
Titanium	ppm ASTM D5185m	<b>0</b>	0	0
Silver	ppm ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >20	<b>3</b>	2	0
Lead	ppm ASTM D5185m >20	<b>0</b>	0	0
Copper	ppm ASTM D5185m >20	<b>0</b>	0	0
Tin	ppm ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Vanadium	ppm ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

### ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	<b>0</b>	0	0
Barium	ppm ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Molybdenum	ppm ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185m 0	<b>2</b>	2	2
Calcium	ppm ASTM D5185m 0	<b>25</b>	25	20
Phosphorus	ppm ASTM D5185m 1800	<b>1370</b>	1340	1301
Zinc	ppm ASTM D5185m 0	<b>273</b>	235	178
Sulfur	ppm ASTM D5185m 0	<b>115</b>	69	83

### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >15	<b>14</b>	16	15
Sodium	ppm ASTM D5185m	<b>69</b>	63	40
Potassium	ppm ASTM D5185m >20	<b>6</b>	5	5
Water	% ASTM D6304 >.1	<b>0.048</b>	0.089	0.049
ppm Water	ppm ASTM D6304 >1000	<b>483</b>	899	498.5

### FLUID CLEANLINESS

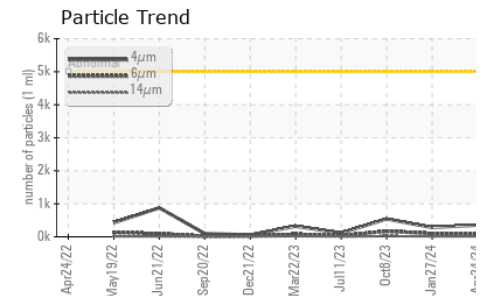
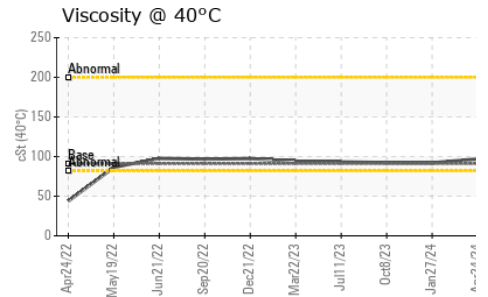
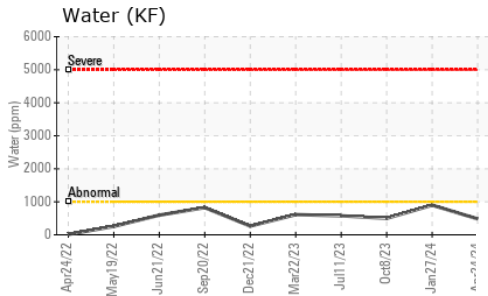
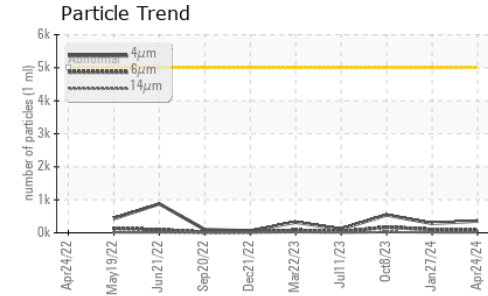
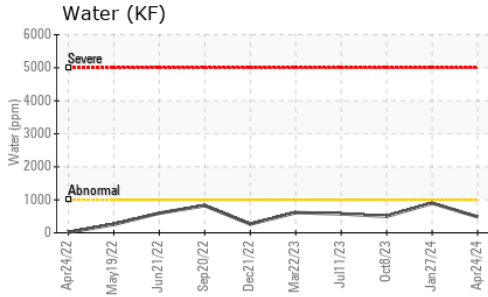
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>356</b>	283	542
Particles >6µm	ASTM D7647 >1300	<b>74</b>	99	171
Particles >14µm	ASTM D7647 >160	<b>12</b>	12	20
Particles >21µm	ASTM D7647 >40	<b>4</b>	4	5
Particles >38µm	ASTM D7647 >10	<b>0</b>	1	0
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>16/13/11</b>	15/14/11	16/15/11

### FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.05	<b>3.56</b>	2.64	2.06



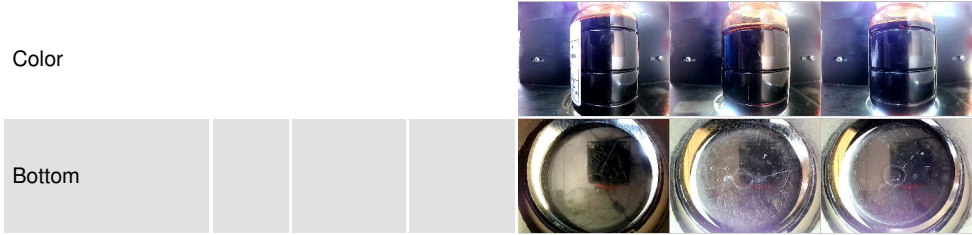
# OIL ANALYSIS REPORT



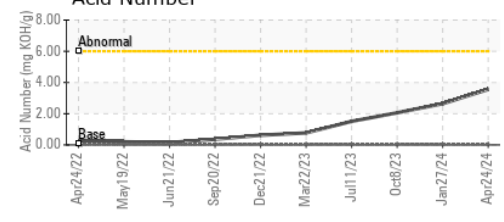
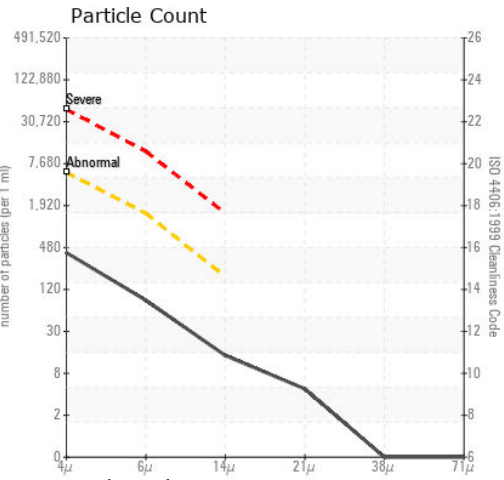
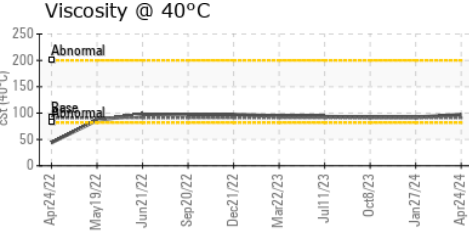
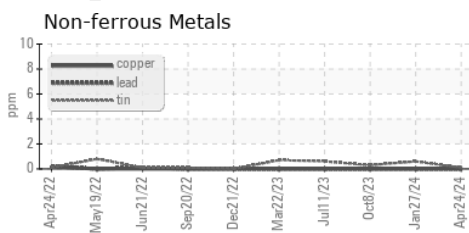
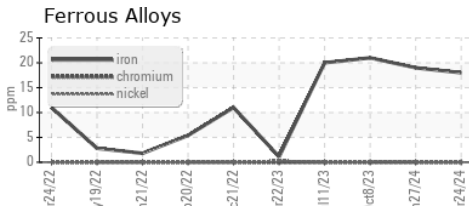
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 91	97.0	92.1	92.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USPM6160383      **Received** : 25 Apr 2024  
**Lab Number** : 06160383      **Tested** : 26 Apr 2024  
**Unique Number** : 10995806      **Diagnosed** : 29 Apr 2024 - Doug Bogart  
**Test Package** : IND 2

**TYSON HILLSHIRE - NEW LONDON**  
 N3620 COUNTY RD D  
 NEW LONDON, WI  
 US 54961  
 Contact:

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)