

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

QUINCY 3 - Q245 (S/N 92395J)

Compressor

USPI FG AIR 46 (--- QTS)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

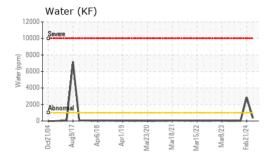
Fluid Condition

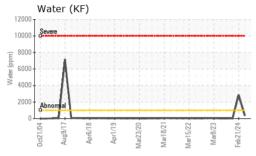
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

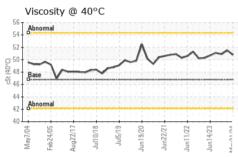
Sample Number Client Info USPM36419 USPM30140 USPM31976 Sample Date Client Info 31 May 2024 21 Feb 2024 05 Dec 2023 05 Dec 2023 Machine Age hrs Client Info 0 0 0 0 Oil Age hrs Client Info N/A N/A N/A N/A ASTM DSIBS Total Info N/A ABNORMAL NORMAL NORMAL Iron ppm ASTM DSIBS 10 0 0 0 Iron ppm ASTM DSIBS 10 0 0 0 Iron ppm ASTM DSIBS 25 0 0 0 0 Iron ppm ASTM DSIBS >50 0 <td< th=""><th></th><th></th><th>1/2004 Feb200:</th><th>Augzul/ Julzulo Julzu</th><th>119 Jun2020 Jun2021 Jun2022 J</th><th>unzoza mayzi</th><th></th></td<>			1/2004 Feb200:	Augzul/ Julzulo Julzu	119 Jun2020 Jun2021 Jun2022 J	unzoza mayzi	
Sample Date Client Info 31 May 2024 21 Feb 2024 05 Dec 2023 Machine Age hrs Client Info 53080 57088 51288 Oil Age hrs Client Info 0 0 0 0 Oil Oldrage Client Info N/A N/A N/A N/A ABNORMAL ABNORMAL NORMAL NORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 0 0 Chromium ppm ASTM D5185m >10 0 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 0 Alluminum ppm ASTM D5185m 0 0 0 0 0 Lead ppm ASTM D5185m >25 0 0 0 0 Copper ppm ASTM D5185m >50 0 0<	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 53080 57068 51268 Oil Age hrs Client Info 0 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status Image: Current of Machine Info N/A ABNORMAL of Normal ABNORMAL of Normal ABNORMAL of Normal ABNORMAL ABNORMAL Normal ABNORMAL Norm	Sample Number		Client Info		USPM36419	USPM30140	USPM31976
Oil Age hrs Client Info N/A P/A Particles > 12 Q Q Q Q C Chromium ppm ASTM D5185m >10 Q <td>Sample Date</td> <td></td> <td>Client Info</td> <td></td> <th>31 May 2024</th> <td>21 Feb 2024</td> <td>05 Dec 2023</td>	Sample Date		Client Info		31 May 2024	21 Feb 2024	05 Dec 2023
Oil Changed Sample Status Client Info N/A Patrony Patron	Machine Age	hrs	Client Info		53080	57068	51268
Sample Status method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 0 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >10 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >25 0 0 0 Aluminum ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >50 0 0 0 Copper ppm ASTM D5185m >50 0 0 0 Tin ppm ASTM D5185m >50 0 0 0 Cadnium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0	Oil Age	hrs	Client Info		0	0	0
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 0 Okcled ppm ASTM D5185m >10 0 0 0 Titanium ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >25 0 0 0 Aluminum ppm ASTM D5185m >25 0 0 0 Aluminum ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >50 0 0 0 Copper ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0<	Oil Changed		Client Info		N/A	N/A	N/A
Iron	Sample Status				ABNORMAL	ABNORMAL	NORMAL
Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m <1 0 0 Tittanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m >25 0 0 0 Aluminum ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >50 0 0 <1 Tin ppm ASTM D5185m 15 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 0 0 Barium ppm ASTM D5185m 0	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Iron	ppm	ASTM D5185m	>50	0	0	0
Titanium	Chromium	ppm	ASTM D5185m	>10	0	0	0
Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >50 0 0 0 Tin ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 M	Nickel	ppm	ASTM D5185m		<1	0	0
Aluminum ppm ASTM D5185m >225 0 0 0 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >50 0 0 -1 Tin ppm ASTM D5185m >15 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0	Titanium	ppm	ASTM D5185m		0	0	0
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Copper ppm ASTM D5185m >50 0 0 <1 Tin ppm ASTM D5185m >15 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0	Aluminum	ppm	ASTM D5185m	>25	0	0	0
Copper ppm ASTM D5185m >50 0 0 <1 Tin ppm ASTM D5185m >15 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0	Lead	ppm	ASTM D5185m	>25	0	0	0
Tin ppm ASTM D5185m >15 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 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 0 Maloganesum ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 1 Calcium ppm ASTM D5185m 0 0 0 0 1 Phosphorus ppm ASTM D5185m 0 0 0 0 1 Sulfur ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m	Copper		ASTM D5185m	>50	0	0	<1
Vanadium 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 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Magnese ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 CONTAMINANTS method limit/base current history1 history2 <			ASTM D5185m	>15	0	0	0
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Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 0 Zinc ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 0 CONTAMINANTS method limit/base current history1 history2 Silic	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 0 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 4 4 Sodium ppm ASTM D5185m >20 2 0 <1 Vater % ASTM D5185m >20 2 0 </th <th>ADDITIVES</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	ADDITIVES		method	limit/base	current	history1	history2
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 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 2.25 3 4 4 Sodium ppm ASTM D5185m 1 1 1 <1 Vater % ASTM D5185m 2.0 2 0 <1 Water % ASTM D6185m 1 0.036 0.287 0.001	Boron	ppm	ASTM D5185m	0	0	0	0
Manganese ppm ASTM D5185m <1 0 0 Magnesium ppm ASTM D5185m 0 0 0 <1 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 10 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 4 4 Sodium ppm ASTM D5185m >20 2 0 <1 Vater % ASTM D5185m >20 2 0 <1 Vater % ASTM D5185m >20 2 0 <287 0.	Barium	ppm	ASTM D5185m	0	0	0	0
Manganese ppm ASTM D5185m <1 0 0 Magnesium ppm ASTM D5185m 0 0 0 <1 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 10 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 4 4 Sodium ppm ASTM D5185m >20 2 0 <1 Vater % ASTM D5185m >20 2 0 <1 Vater % ASTM D5185m >20 2 0 <287 0.	Molybdenum	ppm	ASTM D5185m	0	0	0	0
Calcium ppm ASTM D5185m 0		ppm	ASTM D5185m		<1	0	0
Phosphorus ppm ASTM D5185m 0 0 0 <1 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 10 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 4 4 Sodium ppm ASTM D5185m >20 2 0 <1	Magnesium	ppm	ASTM D5185m	0	0	0	<1
Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 10 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 4 4 Sodium ppm ASTM D5185m >20 2 0 <1 Potassium ppm ASTM D5185m >20 2 0 <1 Water % ASTM D6304 >0.1 0.036 △ 0.287 0.001 ppm Water ppm ASTM D6304 >1000 360 △ 2870 1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >2500 43 384 Particles >21μm ASTM D7647 >80 1 6 Particles >21μm ASTM D7647 >4 -	Calcium	ppm	ASTM D5185m	0	0	0	0
Sulfur ppm ASTM D5185m 0 0 10 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 4 4 Sodium ppm ASTM D5185m >20 2 0 <1	Phosphorus	ppm	ASTM D5185m	0	0	0	<1
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 4 4 Sodium ppm ASTM D5185m >20 2 0 <1	Zinc	ppm	ASTM D5185m	0	0	0	0
Silicon ppm ASTM D5185m >25 3 4 4 Sodium ppm ASTM D5185m 1 1 <1	Sulfur	ppm	ASTM D5185m	0	0	10	0
Sodium ppm ASTM D5185m 1 1 <1	CONTAMINANTS	6	method	limit/base	current	history1	history2
Sodium ppm ASTM D5185m 1 1 <1 <1 Potassium ppm ASTM D5185m >20 2 0 <1	Silicon	ppm	ASTM D5185m	>25	3	4	4
Potassium ppm ASTM D5185m >20 2 0 <1 Water % ASTM D6304 >0.1 0.036 ▲ 0.287 0.001 ppm Water ppm ASTM D6304 >1000 360 ▲ 2870 1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 199 1246 Particles >6μm ASTM D7647 >2500 43 384 Particles >14μm ASTM D7647 >320 2 28 Particles >21μm ASTM D7647 >80 1 6 Particles >38μm ASTM D7647 >20 0 0 Particles >71μm ASTM D7647 >4 0 0 Oil Cleanliness ISO 4406 (c) >/18/15 15/13/9 17/16/12 FLUID DEGRADATION method limit/base current history1 history2 </td <td>Sodium</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th></th> <td>1</td> <td><1</td>	Sodium	ppm	ASTM D5185m			1	<1
Water % ASTM D6304 >0.1 0.036 ▲ 0.287 0.001 ppm Water ppm ASTM D6304 >1000 360 ▲ 2870 1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 199 1246 Particles >6μm ASTM D7647 >2500 43 384 Particles >14μm ASTM D7647 >320 2 28 Particles >21μm ASTM D7647 >80 1 6 Particles >38μm ASTM D7647 >20 0 0 Particles >71μm ASTM D7647 >4 0 0 Oil Cleanliness ISO 4406 (c) >/18/15 15/13/9 17/16/12 FLUID DEGRADATION method limit/base current history1 history2	Potassium	ppm	ASTM D5185m	>20	2	0	<1
ppm Water ppm ASTM D6304 >1000 360 ▲ 2870 1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 199 1246 Particles >6μm ASTM D7647 >2500 43 384 Particles >14μm ASTM D7647 >320 2 28 Particles >21μm ASTM D7647 >80 1 6 Particles >38μm ASTM D7647 >20 0 0 Particles >71μm ASTM D7647 >4 0 0 Oil Cleanliness ISO 4406 (c) >/18/15 15/13/9 17/16/12 FLUID DEGRADATION method limit/base current history1 history2	Water		ASTM D6304	>0.1	0.036	▲ 0.287	0.001
Particles >4μm ASTM D7647 199 1246 Particles >6μm ASTM D7647 >2500 43 384 Particles >14μm ASTM D7647 >320 2 28 Particles >21μm ASTM D7647 >80 1 6 Particles >38μm ASTM D7647 >20 0 0 Particles >71μm ASTM D7647 >4 0 0 Oil Cleanliness ISO 4406 (c) >/18/15 15/13/9 17/16/12 FLUID DEGRADATION method limit/base current history1 history2	ppm Water	ppm					1
Particles >6μm ASTM D7647 >2500 43 384 Particles >14μm ASTM D7647 >320 2 28 Particles >21μm ASTM D7647 >80 1 6 Particles >38μm ASTM D7647 >20 0 0 Particles >71μm ASTM D7647 >4 0 0 Oil Cleanliness ISO 4406 (c) >/18/15 15/13/9 17/16/12 FLUID DEGRADATION method limit/base current history1 history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14μm ASTM D7647 >320 2 28 Particles >21μm ASTM D7647 >80 1 6 Particles >38μm ASTM D7647 >20 0 0 Particles >71μm ASTM D7647 >4 0 0 Oil Cleanliness ISO 4406 (c) >/18/15 15/13/9 17/16/12 FLUID DEGRADATION method limit/base current history1 history2	Particles >4μm		ASTM D7647			199	1246
Particles >21μm ASTM D7647 >80 1 6 Particles >38μm ASTM D7647 >20 0 0 Particles >71μm ASTM D7647 >4 0 0 Oil Cleanliness ISO 4406 (c) >/18/15 15/13/9 17/16/12 FLUID DEGRADATION method limit/base current history1 history2	Particles >6µm		ASTM D7647	>2500		43	384
Particles >21μm ASTM D7647 >80 1 6 Particles >38μm ASTM D7647 >20 0 0 Particles >71μm ASTM D7647 >4 0 0 Oil Cleanliness ISO 4406 (c) >/18/15 15/13/9 17/16/12 FLUID DEGRADATION method limit/base current history1 history2	·		ASTM D7647	>320		2	28
Particles >38μm ASTM D7647 >20 0 0 Particles >71μm ASTM D7647 >4 0 0 Oil Cleanliness ISO 4406 (c) >/18/15 15/13/9 17/16/12 FLUID DEGRADATION method limit/base current history1 history2			ASTM D7647	>80		1	6
Particles >71μm ASTM D7647 >4 0 0 Oil Cleanliness ISO 4406 (c) >/18/15 15/13/9 17/16/12 FLUID DEGRADATION method limit/base current history1 history2	•			>20		0	0
Oil Cleanliness ISO 4406 (c) >/18/15 15/13/9 17/16/12 FLUID DEGRADATION method limit/base current history1 history2	•		ASTM D7647	>4		0	0
	•			>/18/15		15/13/9	17/16/12
Acid Number (AN) mg KOH/g ASTM D8045 0.15 0.13 0.14 0.11	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.15	0.13	0.14	0.11



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	▲ MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	0.2%	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2

Visc @ 40°C	cSt	ASTM D445	46.8	50.8	51.5	50.9

SAMPLE IMAGES

method

limit/base

current

history1

history2

Color

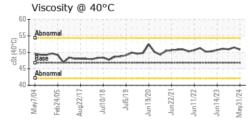
Bottom

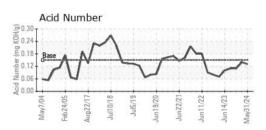


GRAPHS

Ferrous Alloys

Non-ferrous Metals









Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06199208 Unique Number : 11061331

Test Package : IND 2

: USPM36419

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received : 04 Jun 2024 **Tested** : 09 Jun 2024

Diagnosed : 09 Jun 2024 - Doug Bogart

TYSON - NEW HOLLAND - PLANT 1 -USP PLANT 1 NEW HOLLAND, PA

> US 17557 Contact: ROGER GOOD roger.good@tyson.com T: (800)755-4572

* - 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)

Contact/Location: ROGER GOOD - TYSNHOLP1

F: (402)423-6661