

Machine Id  
**TA-2 REDUCER**  
 Component  
**Gearbox**  
 Fluid  
**CHEVRON MEROPA 220 (20 GAL)**

## DIAGNOSIS

**Recommendation**  
 We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.

**Wear**  
 All component wear rates are normal.

**Contamination**  
 There is a high amount of particulates 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		<b>ST46863</b>	ST44860	ST42875
Sample Date	Client Info		<b>03 Apr 2024</b>	13 Apr 2023	20 Apr 2022
Machine Age	mths	Client Info	<b>0</b>	0	0
Oil Age	mths	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	SEVERE

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>51</b>	89	130
Chromium	ppm	ASTM D5185m >15	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>&lt;1</b>	2	3
Lead	ppm	ASTM D5185m >100	<b>0</b>	0	1
Copper	ppm	ASTM D5185m >200	<b>2</b>	3	4
Tin	ppm	ASTM D5185m >25	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185m >5	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 40	<b>0</b>	0	2
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m	<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>5</b>	0	<1
Calcium	ppm	ASTM D5185m	<b>16</b>	4	6
Phosphorus	ppm	ASTM D5185m 270	<b>148</b>	154	163
Zinc	ppm	ASTM D5185m	<b>17</b>	2	0
Sulfur	ppm	ASTM D5185m 8600	<b>11607</b>	13422	10705

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>3</b>	8	7
Sodium	ppm	ASTM D5185m	<b>1</b>	1	0
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	2
Water	%	ASTM D6304 >0.2	<b>0.003</b>	0.005	0.00
ppm Water	ppm	ASTM D6304 >2000	<b>35</b>	55.4	0.00

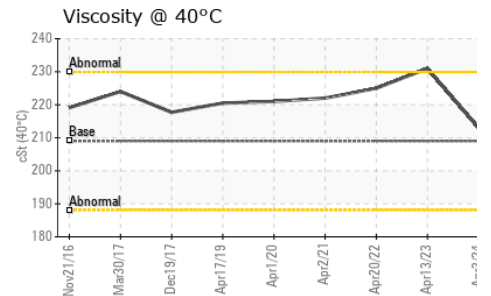
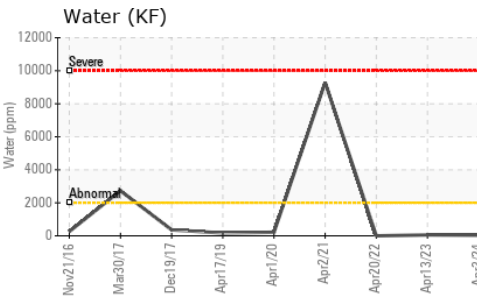
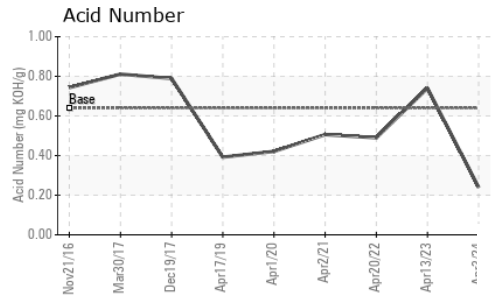
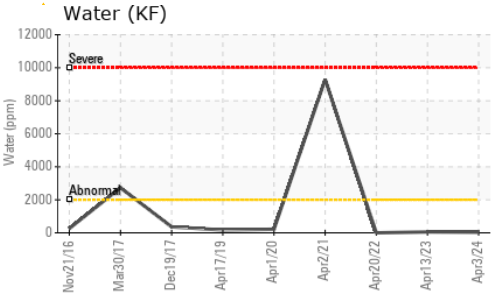
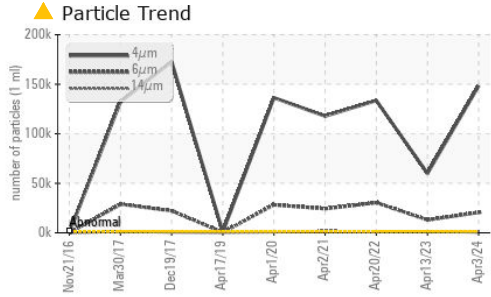
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>1300	<b>▲ 148241</b>	▲ 59943	▲ 133538
Particles >6µm	ASTM D7647	>320	<b>▲ 20635</b>	▲ 13012	▲ 30448
Particles >14µm	ASTM D7647	>80	<b>▲ 254</b>	▲ 1295	▲ 1012
Particles >21µm	ASTM D7647	>20	<b>▲ 50</b>	▲ 325	▲ 215
Particles >38µm	ASTM D7647	>4	<b>1</b>	▲ 39	2
Particles >71µm	ASTM D7647	>3	<b>0</b>	▲ 4	0
Oil Cleanliness	ISO 4406 (c)	>17/15/13	<b>▲ 24/22/15</b>	▲ 23/21/17	▲ 24/22/17

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.64	<b>0.24</b>	0.74	0.49

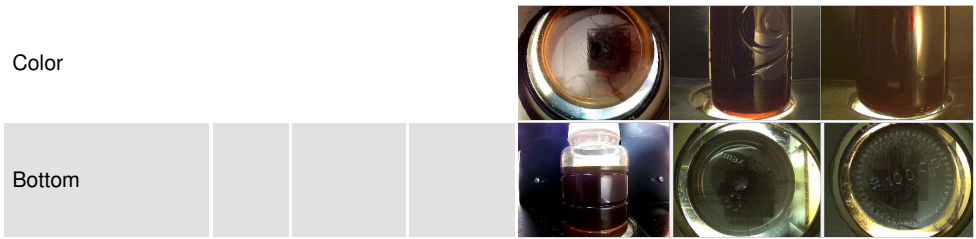
# OIL ANALYSIS REPORT



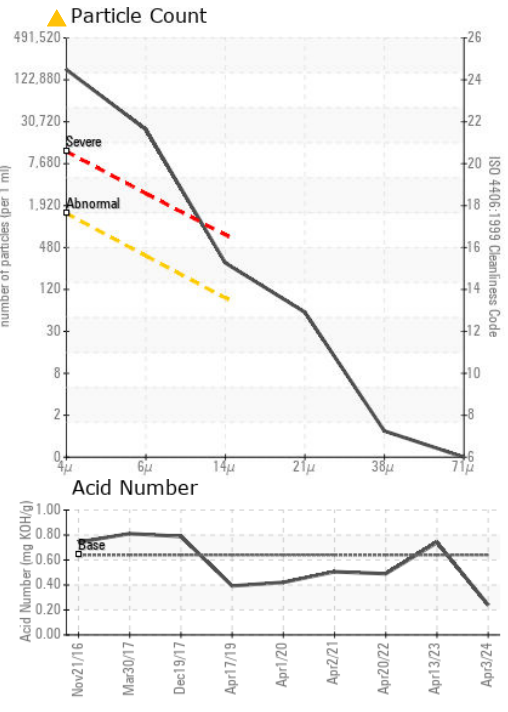
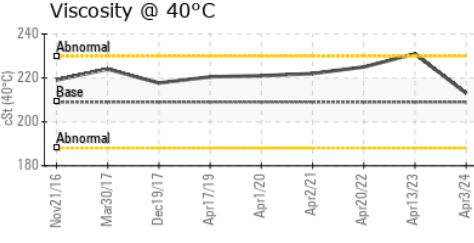
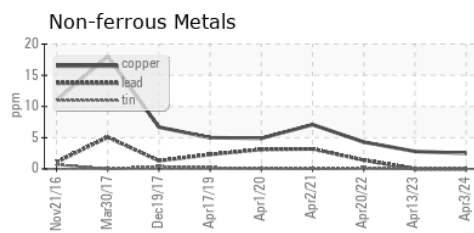
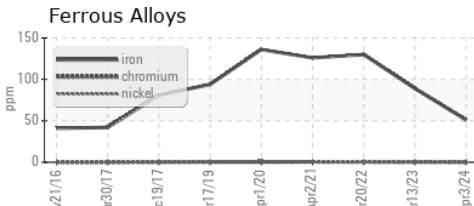
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 209	213	231	225

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ST46863  
**Lab Number** : 06143056  
**Unique Number** : 10967864  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )  
**Received** : 09 Apr 2024  
**Tested** : 10 Apr 2024  
**Diagnosed** : 11 Apr 2024 - Jonathan Hester

**HYDRAULIC SUPPLY COMPANY**  
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