

Machine Id  
**TA-6 REDUCER**  
 Component  
**Gearbox**  
 Fluid  
**CHEVRON MEROPA 220 (20 GAL)**

### 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. 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 moderate amount of visible silt present in the sample. There is a light concentration of water present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>ST46592</b>	ST44632	ST42844
Sample Date	Client Info			<b>02 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>104</b>	140	66
Chromium	ppm	ASTM D5185m	>15	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m	>15	<b>&lt;1</b>	1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	2	<1
Lead	ppm	ASTM D5185m	>100	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>200	<b>14</b>	3	2
Tin	ppm	ASTM D5185m	>25	<b>&lt;1</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	0

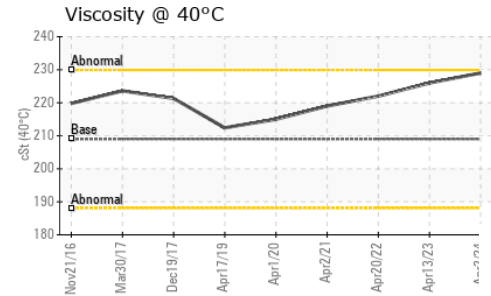
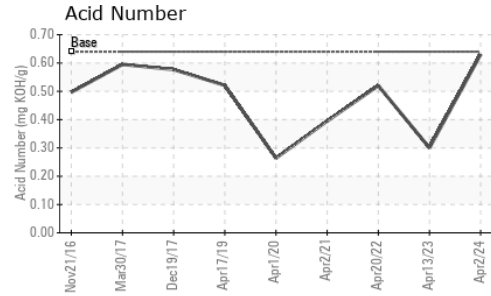
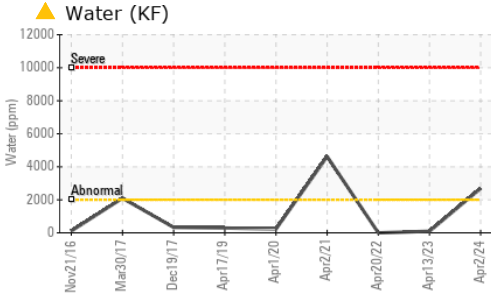
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	40	<b>0</b>	0	<1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	1	0
Calcium	ppm	ASTM D5185m		<b>10</b>	2	1
Phosphorus	ppm	ASTM D5185m	270	<b>86</b>	115	116
Zinc	ppm	ASTM D5185m		<b>&lt;1</b>	4	0
Sulfur	ppm	ASTM D5185m	8600	<b>8892</b>	9154	7489

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>8</b>	10	5
Sodium	ppm	ASTM D5185m		<b>3</b>	2	0
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	2
Water	%	ASTM D6304	>0.2	<b>▲ 0.269</b>	0.009	0.00
ppm Water	ppm	ASTM D6304	>2000	<b>▲ 2690</b>	94.1	0.00

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	<b>---</b>	▲ 200944	▲ 107109
Particles >6µm		ASTM D7647	>320	<b>---</b>	▲ 152490	▲ 5640
Particles >14µm		ASTM D7647	>80	<b>---</b>	▲ 17910	35
Particles >21µm		ASTM D7647	>20	<b>---</b>	▲ 1662	5
Particles >38µm		ASTM D7647	>4	<b>---</b>	▲ 38	0
Particles >71µm		ASTM D7647	>3	<b>---</b>	1	0
Oil Cleanliness		ISO 4406 (c)	>17/15/13	<b>---</b>	▲ 25/24/21	▲ 24/20/12

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.64	<b>0.63</b>	0.30	0.52

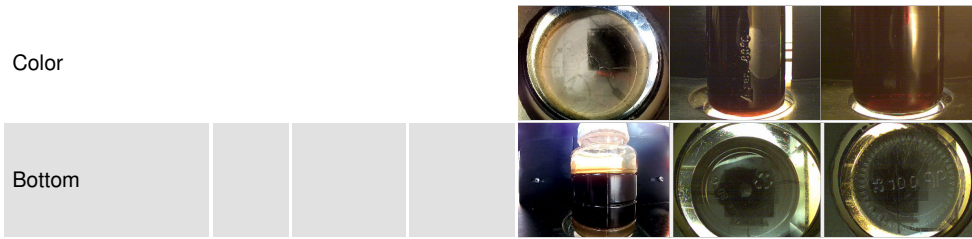
# OIL ANALYSIS REPORT



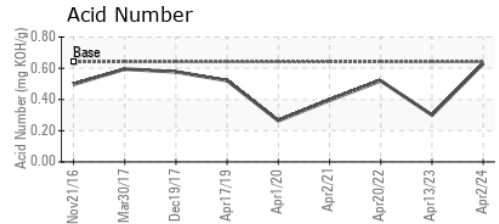
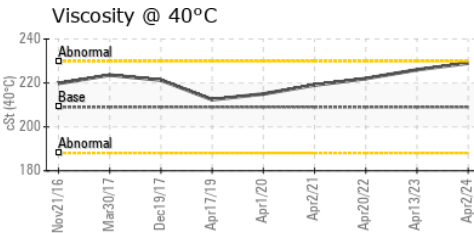
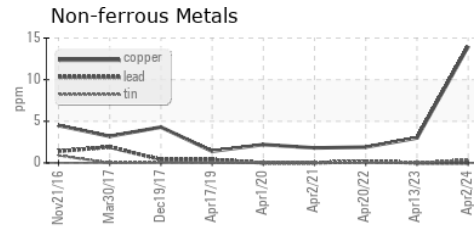
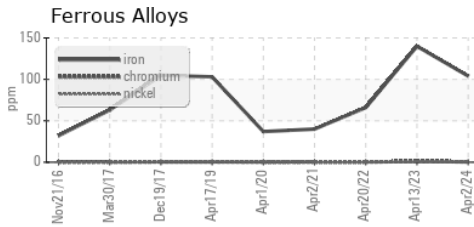
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 209	229	226	222

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ST46592 **Received** : 09 Apr 2024  
**Lab Number** : 06143039 **Tested** : 11 Apr 2024  
**Unique Number** : 10967847 **Diagnosed** : 11 Apr 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**HYDRAULIC SUPPLY COMPANY**  
 326 SE 1ST ST  
 BELLE GLADE, FL  
 US 33430  
 Contact: ROBERT RETALEATO  
 r.retaeato@hydraulic-supply.com; rsr@hydraulic-supply.com

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)