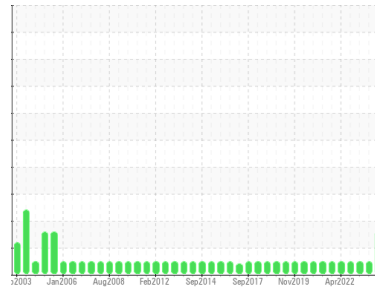




# OIL ANALYSIS REPORT

Sample Rating Trend



## VISCOSITY



Area  
**FILMS DEPARTMENT SAMPLES**  
 Machine Id  
**DAVIS STAND 5E (S/N P2974)**  
 Component  
**Gearbox**  
 Fluid  
**TEXACO REGAL OIL R&O 220 (40 GAL)**

### DIAGNOSIS

#### ● Recommendation

No corrective action is recommended at this time. 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 oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0869574</b>	WC0821020	WC0757277
Sample Date	Client Info			<b>23 Apr 2024</b>	08 Oct 2023	04 Apr 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>ATTENTION</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<b>46</b>	33	26
Chromium	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
Lead	ppm	ASTM D5185m	>100	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>200	<b>7</b>	<1	<1
Tin	ppm	ASTM D5185m	>25	<b>0</b>	<1	0
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>2</b>	<1	<1
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>5</b>	2	3
Manganese	ppm	ASTM D5185m		<b>1</b>	1	<1
Magnesium	ppm	ASTM D5185m	0	<b>18</b>	3	0
Calcium	ppm	ASTM D5185m	0	<b>448</b>	9	6
Phosphorus	ppm	ASTM D5185m	0	<b>247</b>	200	208
Zinc	ppm	ASTM D5185m	0	<b>150</b>	14	19
Sulfur	ppm	ASTM D5185m	4046	<b>7562</b>	6692	7588

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>3</b>	3	4
Sodium	ppm	ASTM D5185m		<b>2</b>	2	<1
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	1

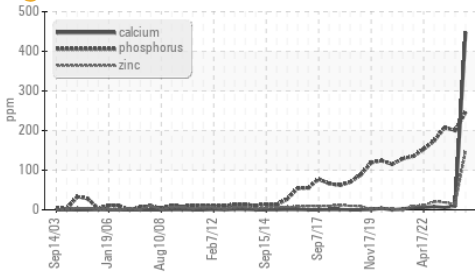
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>816</b>	8344	807
Particles >6µm		ASTM D7647	>5000	<b>180</b>	1591	315
Particles >14µm		ASTM D7647	>640	<b>16</b>	57	66
Particles >21µm		ASTM D7647	>160	<b>3</b>	13	8
Particles >38µm		ASTM D7647	>40	<b>0</b>	1	0
Particles >71µm		ASTM D7647	>10	<b>0</b>	1	0
Oil Cleanliness		ISO 4406 (c)	>--/19/16	<b>17/15/11</b>	20/18/13	17/15/13

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.39</b>	0.44	0.52

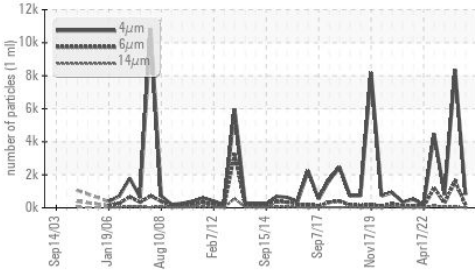


# OIL ANALYSIS REPORT

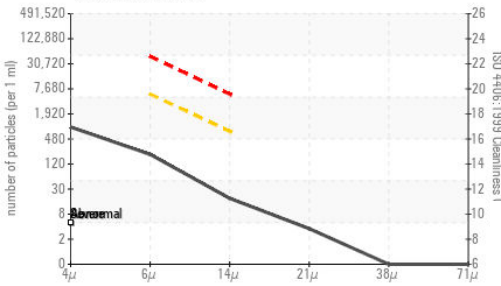
## Additives



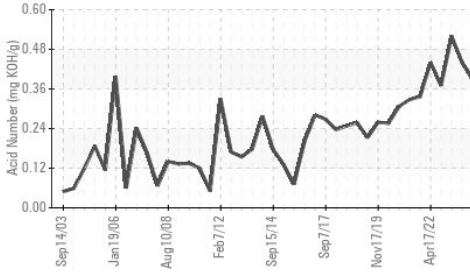
## Particle Trend



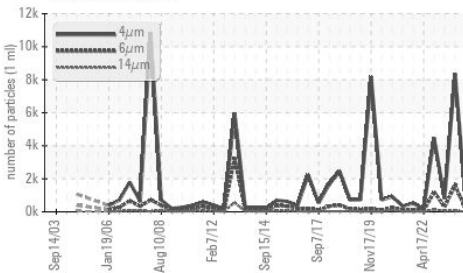
## Particle Count



## Acid Number



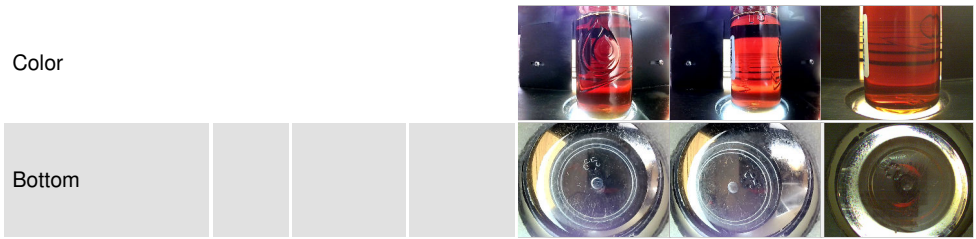
## Particle Trend



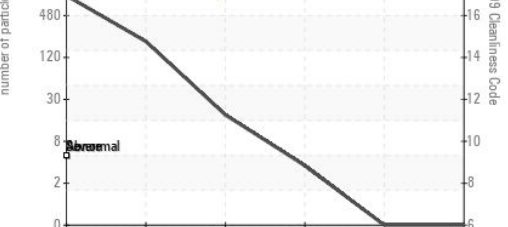
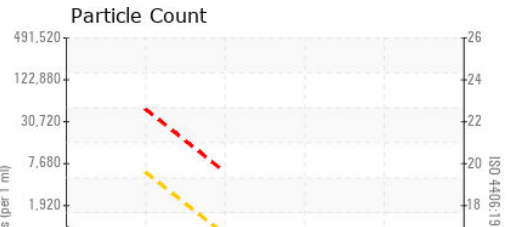
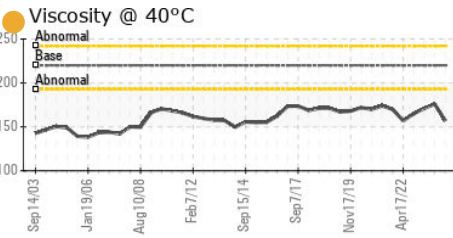
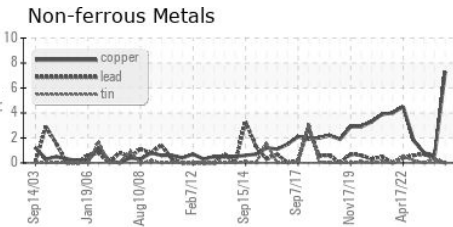
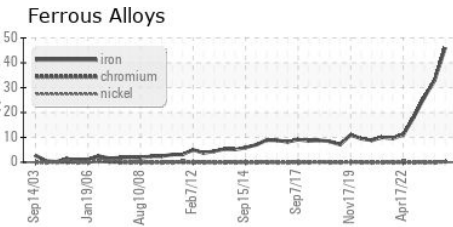
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	157.1	176

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0869574  
**Lab Number** : 06159044  
**Unique Number** : 10994467  
**Test Package** : IND 2 ( Additional Tests: PrtCount )  
**Received** : 24 Apr 2024  
**Tested** : 29 Apr 2024  
**Diagnosed** : 30 Apr 2024 - Jonathan Hester

**SEALED AIR CORP - CRYOVAC DIVISION**  
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