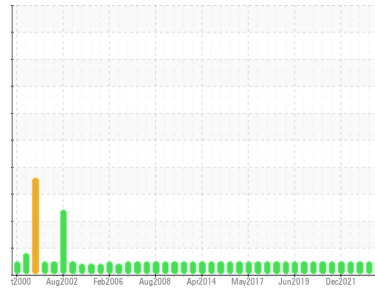




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

## BARRIER DEPARTMENT SAMPLES FLENDER WEB 05 SD SUBSTRATE

Machine Id

Component

**Gearbox**

Fluid

**TEXACO MEROPA 220 (22 GAL)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is 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>WC0913521</b>   | WC0806380   | WC0757252   |
| Sample Date   | Client Info | <b>14 Apr 2024</b> | 08 Oct 2023 | 04 Apr 2023 |
| Machine Age   | hrs         | Client Info        | <b>0</b>    | 0           |
| Oil Age       | hrs         | Client Info        | <b>0</b>    | 0           |
| Oil Changed   | Client Info | <b>N/A</b>         | N/A         | N/A         |
| Sample Status |             | <b>NORMAL</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>1</b>     | 0        | <1 |
| 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>0</b>     | 0        | 0  |
| Lead     | ppm        | ASTM D5185m >100 | <b>0</b>     | 0        | 0  |
| Copper   | ppm        | ASTM D5185m >200 | <b>1</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 3.2   | <b>0</b>     | 0        | 3    |
| Barium     | ppm        | ASTM D5185m 0.5   | <b>0</b>     | 0        | 0    |
| Molybdenum | ppm        | ASTM D5185m 1.1   | <b>&lt;1</b> | 0        | 1    |
| Manganese  | ppm        | ASTM D5185m       | <b>0</b>     | 0        | 0    |
| Magnesium  | ppm        | ASTM D5185m 0.1   | <b>4</b>     | 5        | 1    |
| Calcium    | ppm        | ASTM D5185m 1.6   | <b>18</b>    | 23       | 18   |
| Phosphorus | ppm        | ASTM D5185m 159   | <b>55</b>    | 56       | 64   |
| Zinc       | ppm        | ASTM D5185m 0.5   | <b>32</b>    | 39       | 41   |
| Sulfur     | ppm        | ASTM D5185m 10342 | <b>1295</b>  | 1329     | 1379 |

### CONTAMINANTS

| method    | limit/base | current         | history1 | history2 |    |
|-----------|------------|-----------------|----------|----------|----|
| Silicon   | ppm        | ASTM D5185m >50 | <b>5</b> | 9        | 23 |
| Sodium    | ppm        | ASTM D5185m     | <b>1</b> | 0        | 0  |
| Potassium | ppm        | ASTM D5185m >20 | <b>0</b> | <1       | <1 |

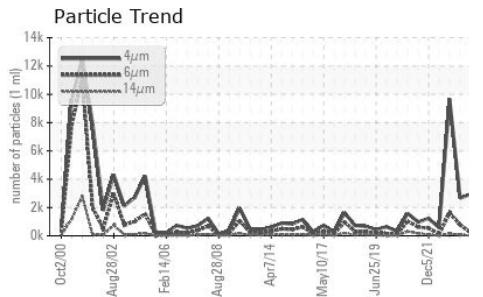
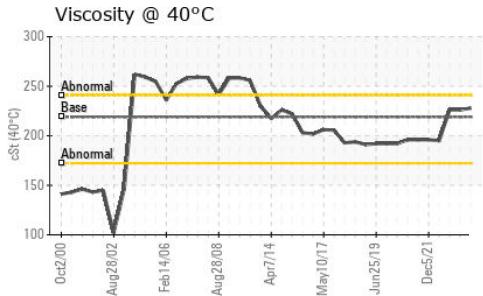
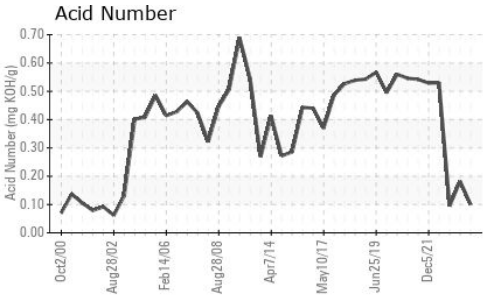
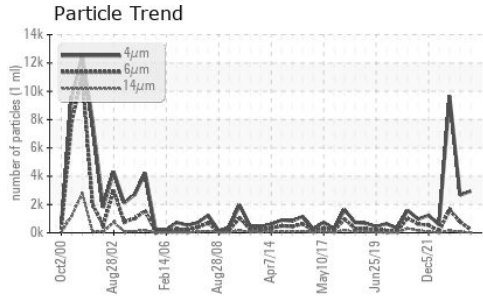
### FLUID CLEANLINESS

| method          | limit/base             | current         | history1 | history2 |
|-----------------|------------------------|-----------------|----------|----------|
| Particles >4µm  | ASTM D7647             | <b>2945</b>     | 2670     | 9657     |
| Particles >6µm  | ASTM D7647 >5000       | <b>221</b>      | 784      | 1615     |
| Particles >14µm | ASTM D7647 >640        | <b>22</b>       | 72       | 144      |
| Particles >21µm | ASTM D7647 >160        | <b>4</b>        | 15       | 33       |
| Particles >38µm | ASTM D7647 >40         | <b>0</b>        | 1        | 1        |
| Particles >71µm | ASTM D7647 >10         | <b>0</b>        | 0        | 0        |
| Oil Cleanliness | ISO 4406 (c) >--/19/16 | <b>19/15/12</b> | 19/17/13 | 20/18/14 |

### FLUID DEGRADATION

| method           | limit/base | current    | history1    | history2 |       |
|------------------|------------|------------|-------------|----------|-------|
| Acid Number (AN) | mg KOH/g   | ASTM D8045 | <b>0.10</b> | 0.182    | 0.095 |

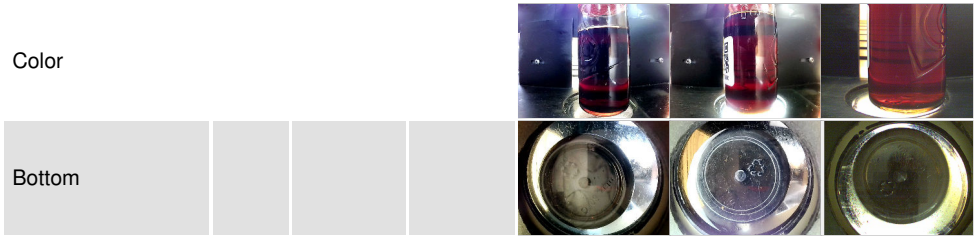
# OIL ANALYSIS REPORT



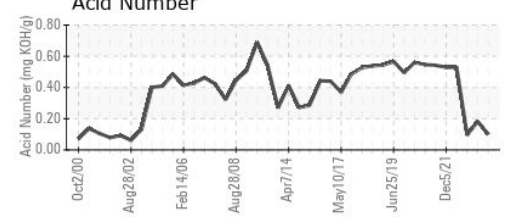
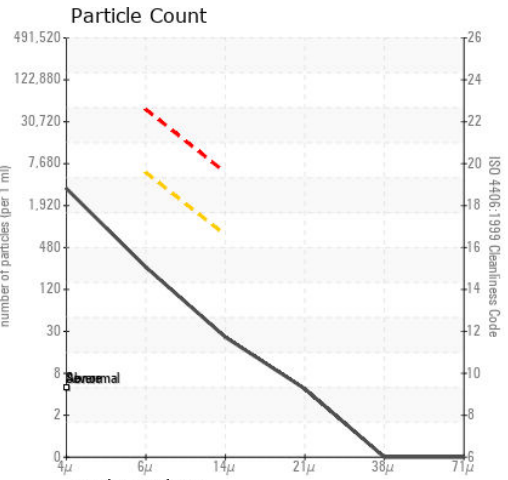
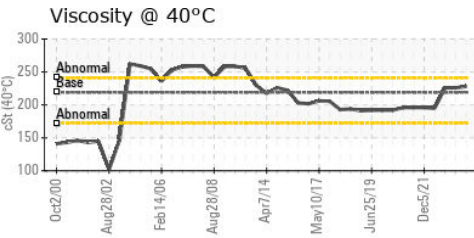
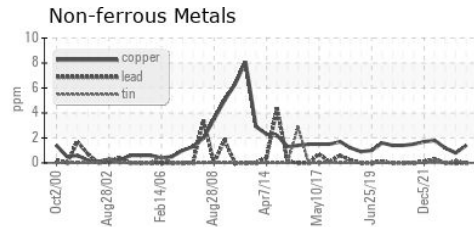
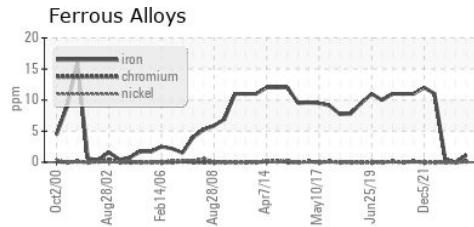
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
| 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    | >0.2    | NEG      | NEG      |
| Free Water       | scalar | *Visual    |         | NEG      | NEG      |

| FLUID PROPERTIES | method | limit/base    | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445 219 | 228     | 226      | 226      |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0913521 **Received** : 15 Apr 2024  
**Lab Number** : 06148686 **Tested** : 16 Apr 2024  
**Unique Number** : 10978764 **Diagnosed** : 17 Apr 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**SEALED AIR CORP - CRYOVAC DIVISION**  
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 IOWA PARK, TX 76367  
 Contact: KEVIN KETCHERSID  
 kevin.a.ketchersid@sealedair.com  
 T: (940)592-2111  
 F: (940)592-2513

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)