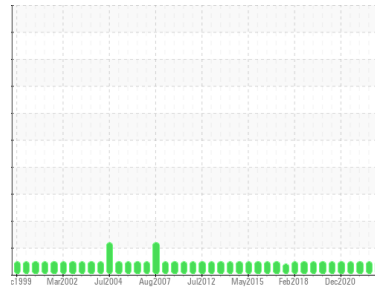




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

BARRIER DEPARTMENT SAMPLES

Machine Id

DAVIS STAND WEB 07 A SEAL (S/N J9611)

Component

Gearbox

Fluid

TEXACO MEROPA 220 (15 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 | WC0913494 | WC0456140 | WC0692867 |
| Sample Date | Client Info | 14 Apr 2024 | 30 Oct 2022 | 08 May 2022 |
| Machine Age | hrs | Client Info | 0 | 0 |
| Oil Age | hrs | Client Info | 0 | 0 |
| Oil Changed | Client Info | N/A | N/A | N/A |
| Sample Status | | NORMAL | NORMAL | NORMAL |

CONTAMINATION

| method | limit/base | current | history1 | history2 |
|--------|----------------|------------|----------|----------|
| Water | WC Method >0.2 | NEG | NEG | NEG |

WEAR METALS

| method | limit/base | current | history1 | history2 | |
|----------|------------|------------------|--------------|----------|-----|
| Iron | ppm | ASTM D5185m >200 | 14 | 12 | 12 |
| Chromium | ppm | ASTM D5185m >15 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185m >15 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >25 | <1 | 0 | <1 |
| Lead | ppm | ASTM D5185m >100 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185m >200 | 23 | 25 | 22 |
| Tin | ppm | ASTM D5185m >25 | 0 | <1 | <1 |
| Antimony | ppm | ASTM D5185m >5 | --- | --- | --- |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| method | limit/base | current | history1 | history2 | |
|------------|------------|-------------------|--------------|----------|------|
| Boron | ppm | ASTM D5185m 3.2 | 2 | 2 | 4 |
| Barium | ppm | ASTM D5185m 0.5 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m 1.1 | 1 | 2 | 2 |
| Manganese | ppm | ASTM D5185m | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m 0.1 | 1 | 0 | 1 |
| Calcium | ppm | ASTM D5185m 1.6 | 11 | 14 | 13 |
| Phosphorus | ppm | ASTM D5185m 159 | 305 | 383 | 414 |
| Zinc | ppm | ASTM D5185m 0.5 | 11 | 21 | 21 |
| Sulfur | ppm | ASTM D5185m 10342 | 4678 | 4886 | 3903 |

CONTAMINANTS

| method | limit/base | current | history1 | history2 | |
|-----------|------------|-----------------|----------|----------|----|
| Silicon | ppm | ASTM D5185m >50 | 6 | 6 | 8 |
| Sodium | ppm | ASTM D5185m | 6 | 5 | 2 |
| Potassium | ppm | ASTM D5185m >20 | 1 | 0 | <1 |

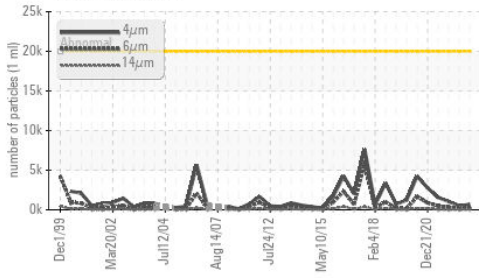
FLUID CLEANLINESS

| method | limit/base | current | history1 | history2 |
|-----------------|------------------------|-----------------|----------|----------|
| Particles >4µm | ASTM D7647 >20000 | 693 | 480 | 1051 |
| Particles >6µm | ASTM D7647 >5000 | 168 | 143 | 330 |
| Particles >14µm | ASTM D7647 >640 | 24 | 17 | 25 |
| Particles >21µm | ASTM D7647 >160 | 5 | 2 | 3 |
| Particles >38µm | ASTM D7647 >40 | 0 | 0 | 0 |
| Particles >71µm | ASTM D7647 >10 | 0 | 0 | 0 |
| Oil Cleanliness | ISO 4406 (c) >21/19/16 | 17/15/12 | 16/14/11 | 17/16/12 |

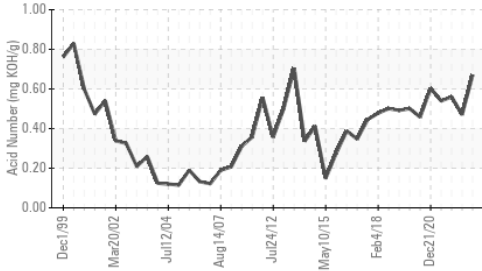


OIL ANALYSIS REPORT

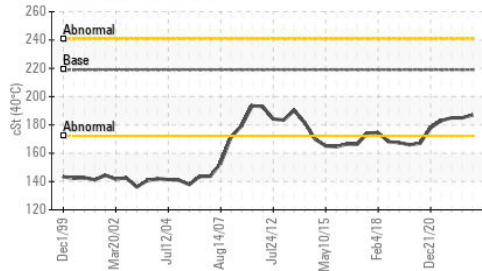
Particle Trend



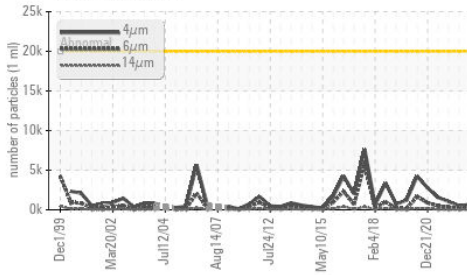
Acid Number



Viscosity @ 40°C



Particle Trend



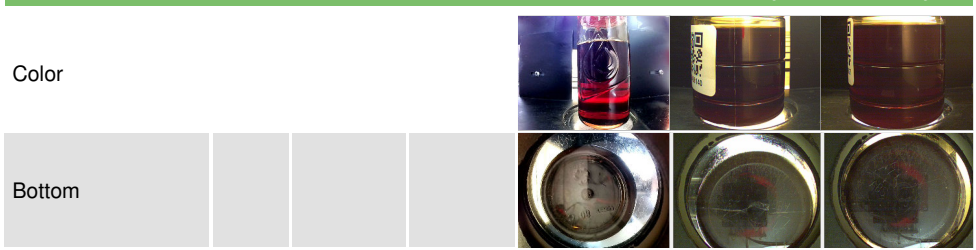
FLUID DEGRADATION

| method | limit/base | current | history1 | history2 | | |
|---------------------------|------------|-------------|----------|--------------|-------|-------|
| Acid Number (AN) mg KOH/g | ASTM D8045 | 0.67 | 0.47 | 0.56 | | |
| VISUAL | | | | | | |
| 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 | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |

FLUID PROPERTIES

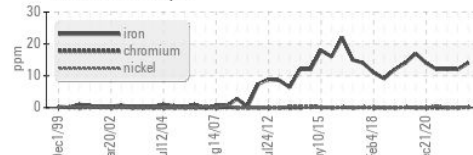
| method | limit/base | current | history1 | history2 | | |
|-------------|------------|-----------|----------|------------|-----|-----|
| Visc @ 40°C | cSt | ASTM D445 | 219 | 187 | 185 | 185 |

SAMPLE IMAGES

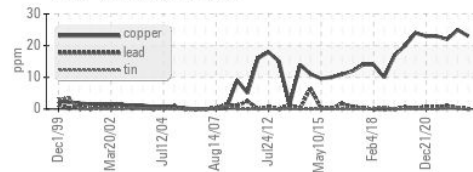


GRAPHS

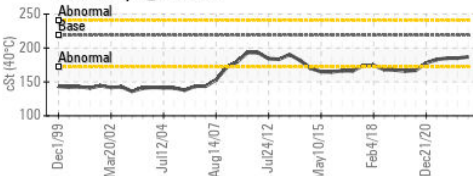
Ferrous Alloys



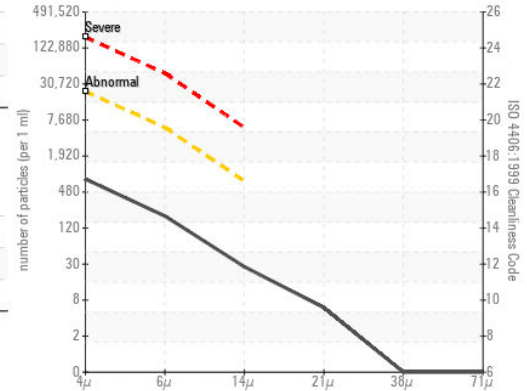
Non-ferrous Metals



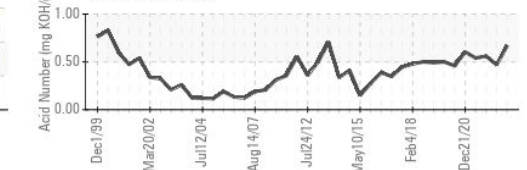
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0913494

Lab Number : **06148710**

Unique Number : 10978788

Test Package : IND 2 (Additional Tests: PrtCount)

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)

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