

Area

SMART OIL 6000

Machine Id

HERTZ VD024934 - MILK SPECIALTIES-BOSCOBEL

Component

Compressor

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is above the recommended limit.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|----------|
| Sample Number | Client Info | | UHK06206658 | UHK05924909 | --- |
| Sample Date | Client Info | | 06 Jun 2024 | 31 Jul 2023 | --- |
| Machine Age | hrs | Client Info | 14600 | 4059 | --- |
| Oil Age | hrs | Client Info | 6000 | 4059 | --- |
| Oil Changed | Client Info | | Changed | Changed | --- |
| Sample Status | | | ABNORMAL | NORMAL | --- |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.1 | NEG | NEG | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >50 | 0 | 2 | --- |
| Chromium | ppm | ASTM D5185m >10 | <1 | 0 | --- |
| Nickel | ppm | ASTM D5185m | <1 | 0 | --- |
| Titanium | ppm | ASTM D5185m | <1 | 0 | --- |
| Silver | ppm | ASTM D5185m | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m >25 | 2 | <1 | --- |
| Lead | ppm | ASTM D5185m >25 | 0 | 0 | --- |
| Copper | ppm | ASTM D5185m >50 | 1 | 2 | --- |
| Tin | ppm | ASTM D5185m >15 | <1 | 1 | --- |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | --- |
| Cadmium | ppm | ASTM D5185m | <1 | 0 | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|----------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 0 | 0 | --- |
| Barium | ppm | ASTM D5185m | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | --- |
| Manganese | ppm | ASTM D5185m | 0 | 0 | --- |
| Magnesium | ppm | ASTM D5185m | <1 | <1 | --- |
| Calcium | ppm | ASTM D5185m 20 | 0 | 0 | --- |
| Phosphorus | ppm | ASTM D5185m | 127 | 542 | --- |
| Zinc | ppm | ASTM D5185m | 0 | 0 | --- |
| Sulfur | ppm | ASTM D5185m | 188 | 800 | --- |

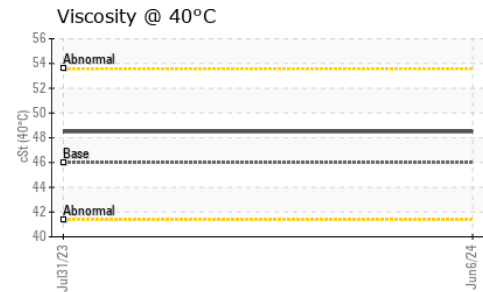
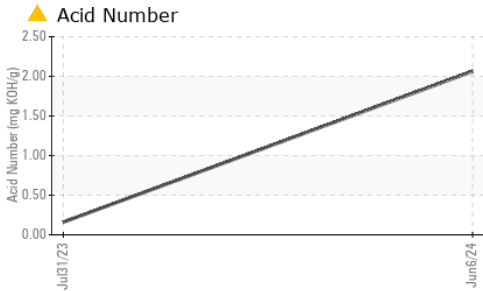
CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >25 | <1 | 3 | --- |
| Sodium | ppm | ASTM D5185m | 0 | 0 | --- |
| Potassium | ppm | ASTM D5185m >20 | <1 | <1 | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------|----------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | ▲ 2.063 | 0.16 | --- |

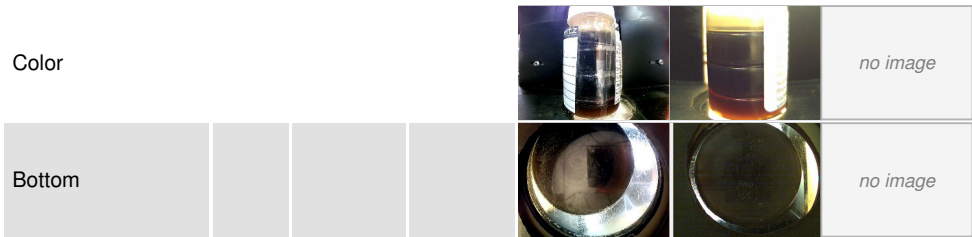
OIL ANALYSIS REPORT



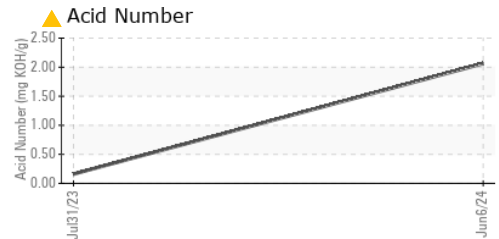
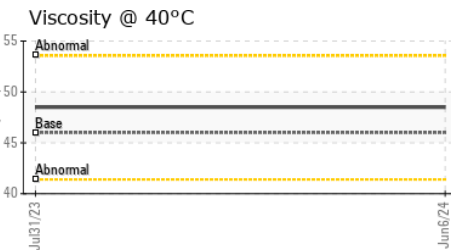
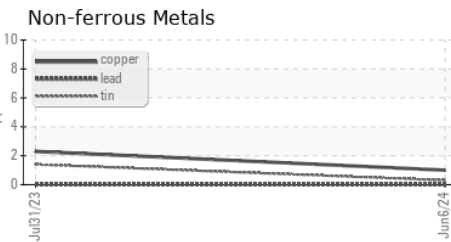
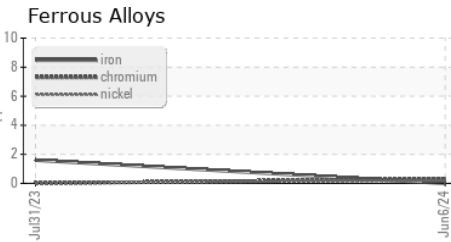
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- |
| Silt | scalar | *Visual | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | --- |
| Free Water | scalar | *Visual | | NEG | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|-------------|----------|-----|
| Visc @ 40°C | cSt | ASTM D445 | 46 | 48.5 | 48.5 | --- |

SAMPLE IMAGES



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UHK06206658
Lab Number : **06206658**
Unique Number : 11074119
Test Package : IND 2

Received : 11 Jun 2024
Tested : 13 Jun 2024
Diagnosed : 13 Jun 2024 - Angela Borella

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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)