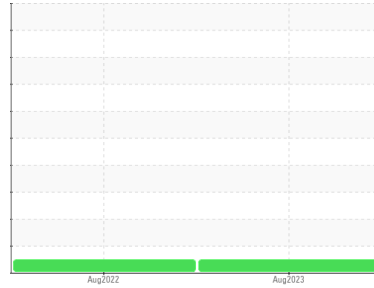




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
MB9269X

Component
Hydraulic System

Fluid
PHILLIPS 66 Powerflow NZ AW46 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.
NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|----------|
| Sample Number | Client Info | | WC0848732 | WC0719677 | --- |
| Sample Date | Client Info | | 10 Aug 2023 | 03 Aug 2022 | --- |
| Machine Age | hrs | Client Info | 0 | 0 | --- |
| Oil Age | hrs | Client Info | 0 | 0 | --- |
| Oil Changed | Client Info | | N/A | N/A | --- |
| Sample Status | | | NORMAL | NORMAL | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >20 | 9 | 2 | --- |
| Chromium | ppm | ASTM D5185m >20 | 4 | <1 | --- |
| Nickel | ppm | ASTM D5185m >20 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m >20 | 0 | <1 | --- |
| Lead | ppm | ASTM D5185m >20 | <1 | <1 | --- |
| Copper | ppm | ASTM D5185m >20 | 4 | 2 | --- |
| Tin | ppm | ASTM D5185m >20 | 0 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | --- |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 0 | <1 | --- |
| Barium | ppm | ASTM D5185m | 0 | 1 | --- |
| Molybdenum | ppm | ASTM D5185m | <1 | 0 | --- |
| Manganese | ppm | ASTM D5185m | 0 | 0 | --- |
| Magnesium | ppm | ASTM D5185m | 2 | <1 | --- |
| Calcium | ppm | ASTM D5185m | 60 | 53 | --- |
| Phosphorus | ppm | ASTM D5185m | 313 | 333 | --- |
| Zinc | ppm | ASTM D5185m | 371 | 436 | --- |
| Sulfur | ppm | ASTM D5185m | 1491 | 1014 | --- |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185m >15 | 1 | <1 | --- |
| Sodium | ppm | ASTM D5185m | 0 | 0 | --- |
| Potassium | ppm | ASTM D5185m >20 | 1 | <1 | --- |

VISUAL

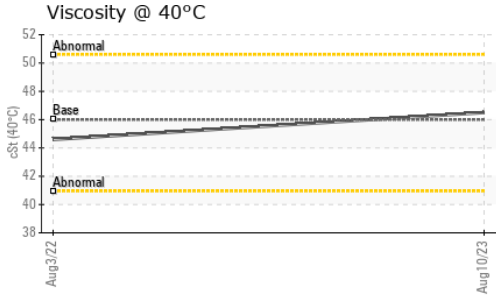
| | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|--------------|----------|----------|
| White Metal | scalar | *Visual NONE | NONE | LIGHT | --- |
| Yellow Metal | scalar | *Visual NONE | NONE | NONE | --- |
| Precipitate | scalar | *Visual NONE | 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 >0.05 | NEG | NEG | --- |
| Free Water | scalar | *Visual | NEG | NEG | --- |

FLUID PROPERTIES

| | method | limit/base | current | history1 | history2 |
|-------------|--------|--------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 46 | 46.5 | 44.6 | --- |

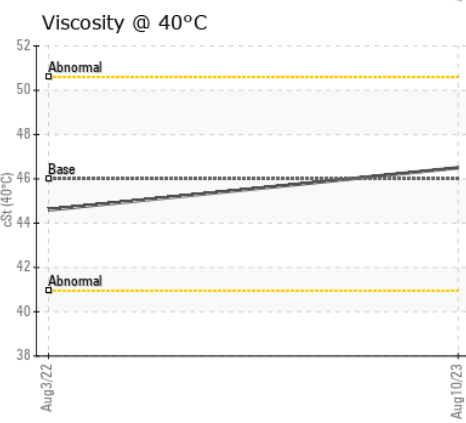
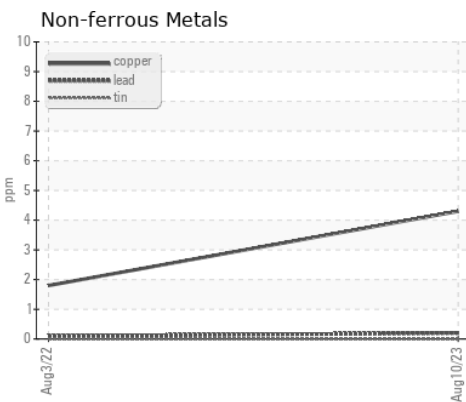
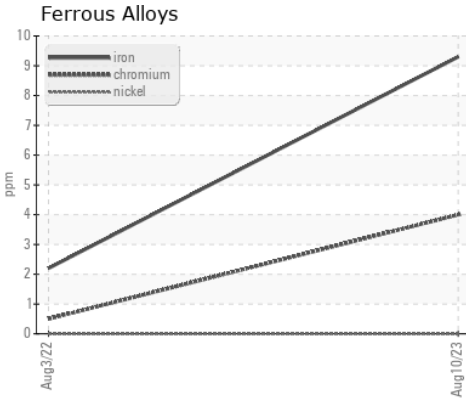


OIL ANALYSIS REPORT



| | SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|--------|---------------|--------|------------|---------|----------|----------|
| Color | | | | | | no image |
| Bottom | | | | | | no image |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0848732 **Received** : 23 Aug 2023
Lab Number : **05932478** **Diagnosed** : 24 Aug 2023
Unique Number : 10617749 **Diagnostician** : Wes Davis
Test Package : IND 1

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 TAZEWELL, TN
 US 37879
 Contact: JEREMY COLLINS
 jcollins@us.sumiriko.com
 T: (423)626-8805
 F: (423)626-2065

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)