



PROBLEM SUMMARY

Sample Rating Trend

ISO

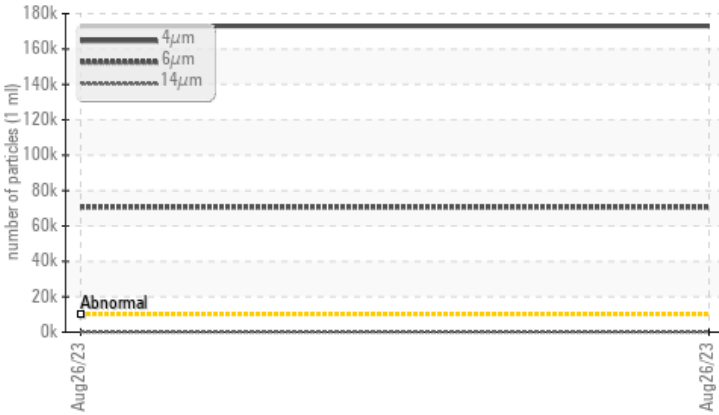


Area
SCOF [98471692]
Machine Id
INCLINE CONVEYOR ROOM 2
Component
Gearbox
Fluid
GEAR OIL ISO 220 (--- GAL)



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

| Sample Status | | | ABNORMAL | --- | --- |
|-----------------|--------------|-----------|-------------------|-----|-----|
| Particles >4µm | ASTM D7647 | >10000 | ▲ 172999 | --- | --- |
| Particles >6µm | ASTM D7647 | >2500 | ▲ 70682 | --- | --- |
| Oil Cleanliness | ISO 4406 (c) | >20/18/16 | ▲ 25/23/15 | --- | --- |

Customer Id: KRANEW
Sample No.: PCA0094569
Lab Number: 05940167
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
SCOF [98471692]
 Machine Id
INCLINE CONVEYOR ROOM 2
 Component
Gearbox
 Fluid
GEAR OIL ISO 220 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|----------|----------|
| Sample Number | Client Info | | | PCA0094569 | --- | --- |
| Sample Date | Client Info | | | 26 Aug 2023 | --- | --- |
| Machine Age | hrs | Client Info | | 0 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | Client Info | | | Changed | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >200 | 76 | --- | --- |
| Chromium | ppm | ASTM D5185m | >15 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185m | >15 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >25 | <1 | --- | --- |
| Lead | ppm | ASTM D5185m | >100 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m | >200 | <1 | --- | --- |
| Tin | ppm | ASTM D5185m | >25 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | --- | --- |
| Cadmium | ppm | ASTM D5185m | | <1 | --- | --- |

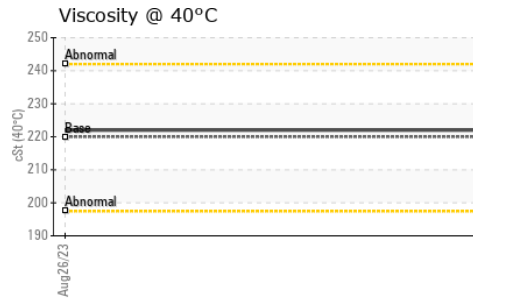
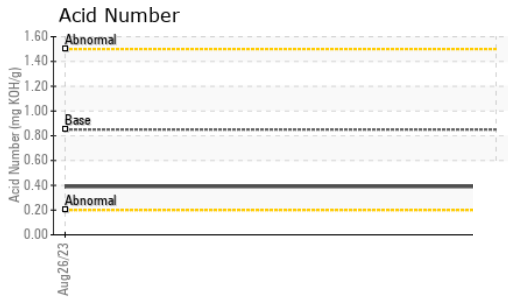
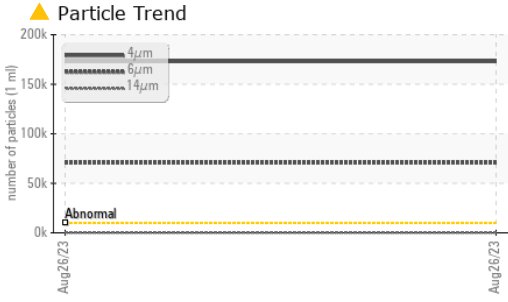
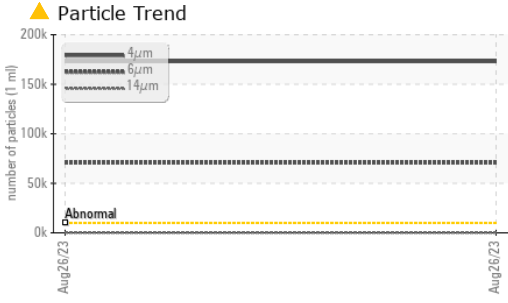
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|------------|----------|----------|
| Boron | ppm | ASTM D5185m | 50 | 0 | --- | --- |
| Barium | ppm | ASTM D5185m | 15 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 15 | 0 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 50 | 4 | --- | --- |
| Calcium | ppm | ASTM D5185m | 50 | 13 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 350 | 143 | --- | --- |
| Zinc | ppm | ASTM D5185m | 100 | 27 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 12500 | 439 | --- | --- |

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

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|-------------------|--|--------------|------------|-------------------|----------|----------|
| Particles >4µm | | ASTM D7647 | >10000 | ▲ 172999 | --- | --- |
| Particles >6µm | | ASTM D7647 | >2500 | ▲ 70682 | --- | --- |
| Particles >14µm | | ASTM D7647 | >640 | 214 | --- | --- |
| Particles >21µm | | ASTM D7647 | >160 | 39 | --- | --- |
| Particles >38µm | | ASTM D7647 | >40 | 3 | --- | --- |
| Particles >71µm | | ASTM D7647 | >10 | 2 | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >20/18/16 | ▲ 25/23/15 | --- | --- |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.85 | 0.39 | --- | --- |

OIL ANALYSIS REPORT



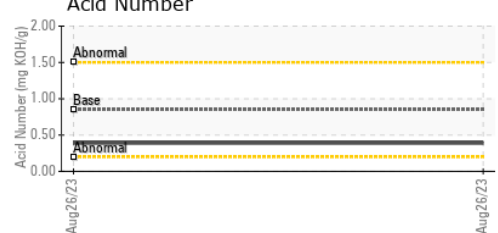
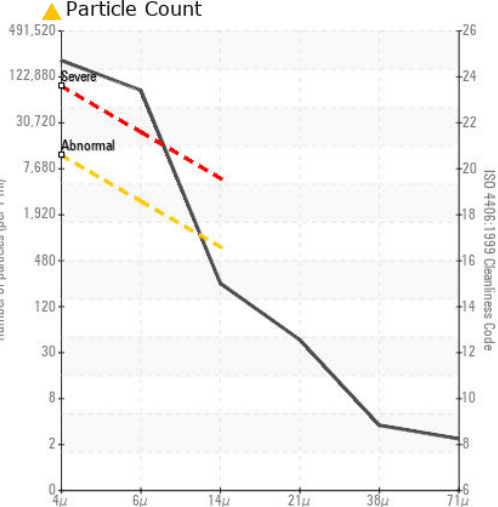
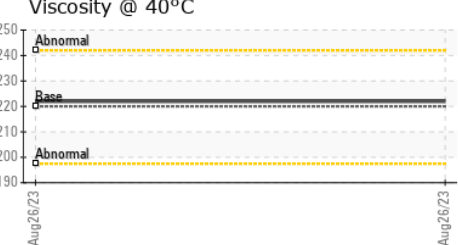
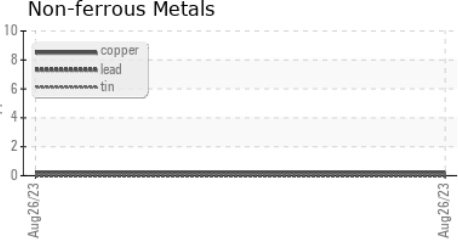
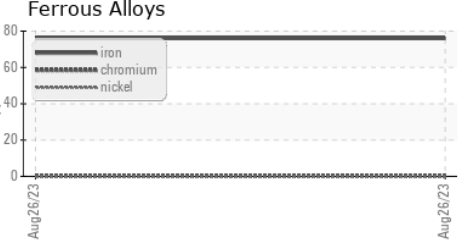
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | ---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

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 220 | 222 | --- |

SAMPLE IMAGES

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0094569 **Received** : 31 Aug 2023
Lab Number : 05940167 **Diagnosed** : 05 Sep 2023
Unique Number : 10630779 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: PrtCount)

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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)