

PROBLEM SUMMARY

Sample Rating Trend

ISO



Machine Id
TK ELEVATOR 10174

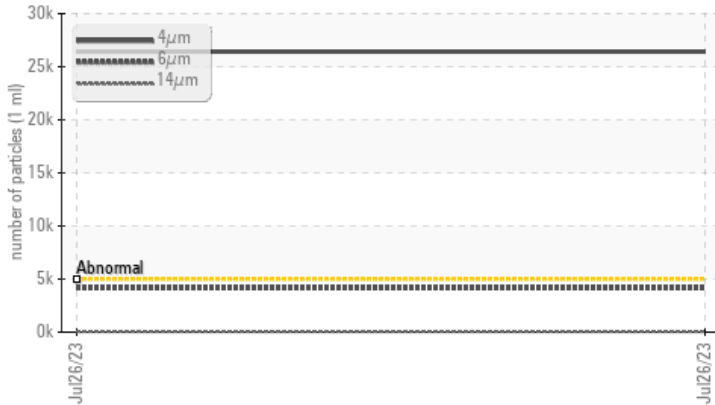
Component
Hydraulic System

Fluid
NOT GIVEN (3500 GAL)



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

Resample at the next service interval to monitor.
Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS

| Sample Status | | | ABNORMAL | --- | --- |
|-----------------|--------------|-----------|-------------------|-----|-----|
| Particles >4µm | ASTM D7647 | >5000 | ▲ 26423 | --- | --- |
| Particles >6µm | ASTM D7647 | >1300 | ▲ 4148 | --- | --- |
| Oil Cleanliness | ISO 4406 (c) | >19/17/14 | ▲ 22/19/13 | --- | --- |

Customer Id: TKEKIR
Sample No.: BB0000166
Lab Number: 05923353
Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@wearcheckusa.com

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

RECOMMENDED ACTIONS

| Action | Status | Date | Done By | Description |
|----------------------|--------|------|---------|---|
| Information Required | --- | --- | ? | Please specify the brand, type, and viscosity of the oil on your next sample. |

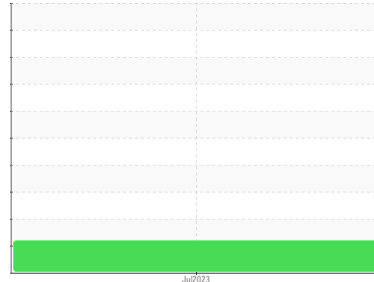
HISTORICAL DIAGNOSIS



Machine Id
TK ELEVATOR 10174

Component
Hydraulic System

Fluid
NOT GIVEN (3500 GAL)



DIAGNOSIS

▲ Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

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 | BB0000166 | --- | --- |
| Sample Date | Client Info | 26 Jul 2023 | --- | --- |
| Machine Age | hrs | Client Info | 0 | --- |
| Oil Age | hrs | Client Info | 0 | --- |
| Oil Changed | Client Info | Not Chngd | --- | --- |
| Sample Status | | ABNORMAL | --- | --- |

WEAR METALS

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

ADDITIVES

| method | limit/base | current | history1 | history2 |
|------------|------------|-------------|--------------|----------|
| Boron | ppm | ASTM D5185m | 0 | --- |
| Barium | ppm | ASTM D5185m | <1 | --- |
| Molybdenum | ppm | ASTM D5185m | 0 | --- |
| Manganese | ppm | ASTM D5185m | <1 | --- |
| Magnesium | ppm | ASTM D5185m | 6 | --- |
| Calcium | ppm | ASTM D5185m | 30 | --- |
| Phosphorus | ppm | ASTM D5185m | 321 | --- |
| Zinc | ppm | ASTM D5185m | 365 | --- |
| Sulfur | ppm | ASTM D5185m | 744 | --- |

CONTAMINANTS

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

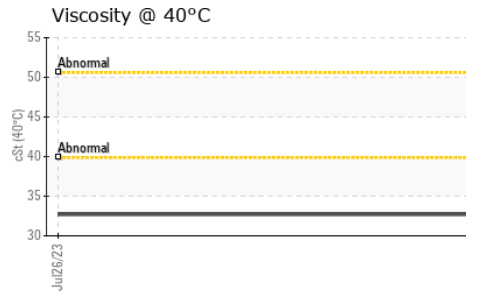
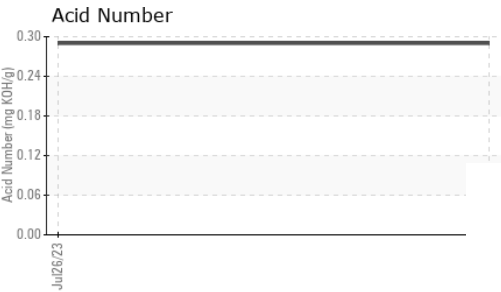
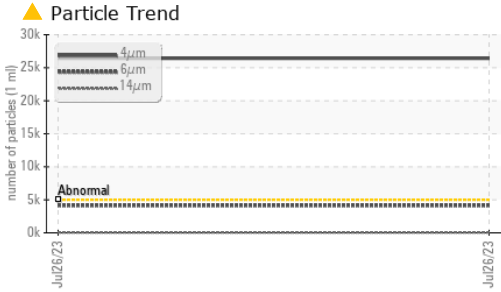
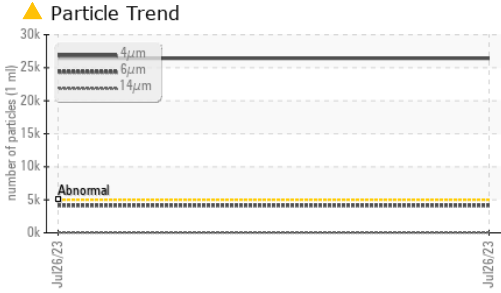
FLUID CLEANLINESS

| method | limit/base | current | history1 | history2 |
|-----------------|------------------------|-------------------|----------|----------|
| Particles >4µm | ASTM D7647 >5000 | ▲ 26423 | --- | --- |
| Particles >6µm | ASTM D7647 >1300 | ▲ 4148 | --- | --- |
| Particles >14µm | ASTM D7647 >160 | 56 | --- | --- |
| Particles >21µm | ASTM D7647 >40 | 5 | --- | --- |
| Particles >38µm | ASTM D7647 >10 | 0 | --- | --- |
| Particles >71µm | ASTM D7647 >3 | 0 | --- | --- |
| Oil Cleanliness | ISO 4406 (c) >19/17/14 | ▲ 22/19/13 | --- | --- |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 |
|------------------|------------|------------|-------------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.29 | --- |

OIL ANALYSIS REPORT



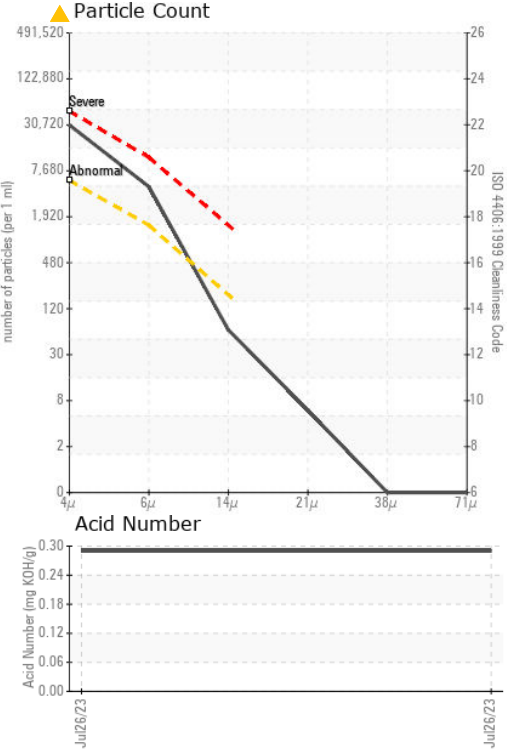
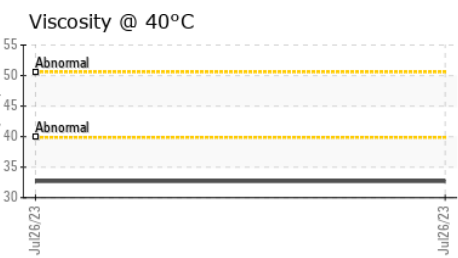
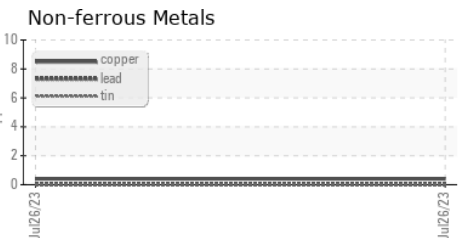
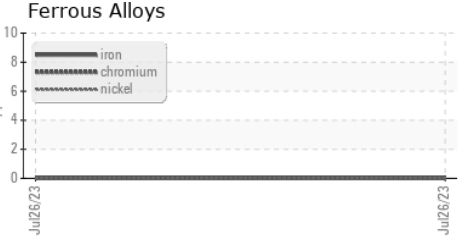
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | ---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

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 32.7 | --- | --- |

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

| | | | |
|--------|--|----------|----------|
| Color | | no image | no image |
| Bottom | | no image | no image |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : BB0000166 **Received** : 14 Aug 2023
Lab Number : 05923353 **Diagnosed** : 15 Aug 2023
Unique Number : 10603300 **Diagnostician** : Angela Borella
Test Package : PLANT

TK Elevator - Kirkland
 12530 135th Ave NE
 Kirkland, WA
 US 98034
 Contact: JAMES SHANK
 james.shank@tkelevator.com

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)

T:
F: