



| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Area
PALASYN 45
Machine Id
PALATEK 1302190003 - GREAT PLAINS TRANSPORT
Component
Compressor

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | UCS06123837 | UCS05956541 | UCS05809068 |
| Sample Date | | Client Info | | 28 Feb 2024 | 19 Sep 2023 | 14 Mar 2023 |
| Machine Age | hrs | Client Info | | 35919 | 33110 | 31299 |
| Oil Age | hrs | Client Info | | 4000 | 1000 | 0 |
| Filter Age | hrs | Client Info | | 4000 | 1000 | 0 |
| Oil Changed | | Client Info | | Changed | Not Changed | N/A |
| Filter Changed | | Client Info | | Changed | Changed | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|-------------|------|------|
| Iron | ppm | ASTM D5185m | >50 | 0 | 0 | 0 |
| Chromium | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >25 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >50 | 0 | <1 | 0 |
| Tin | ppm | ASTM D5185m | >15 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

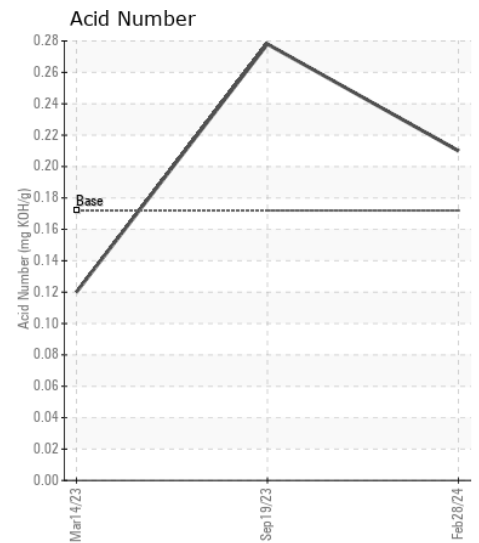
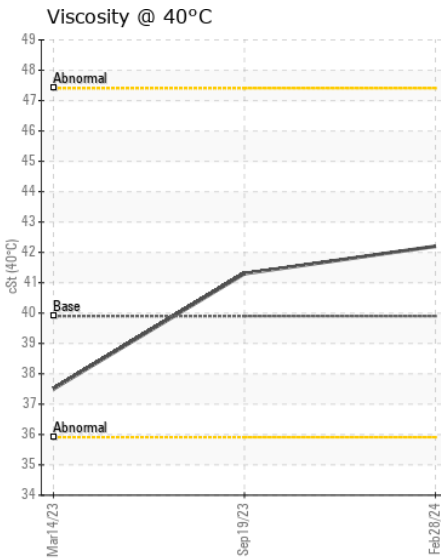
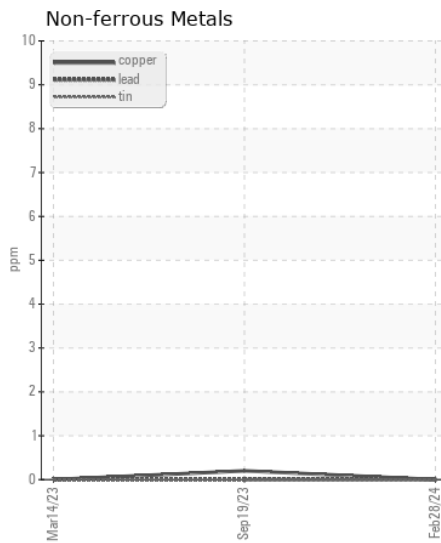
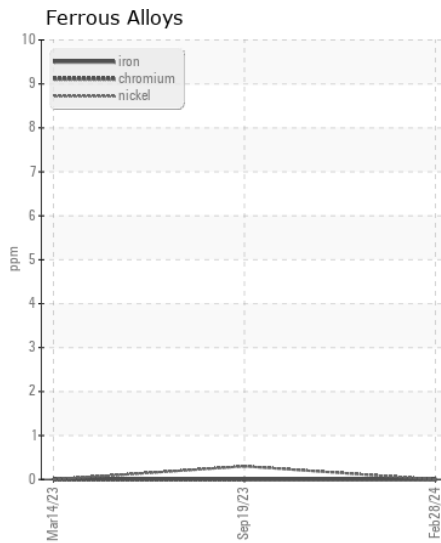
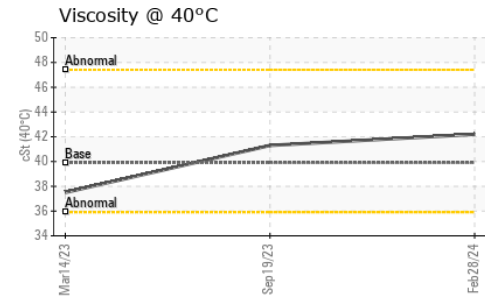
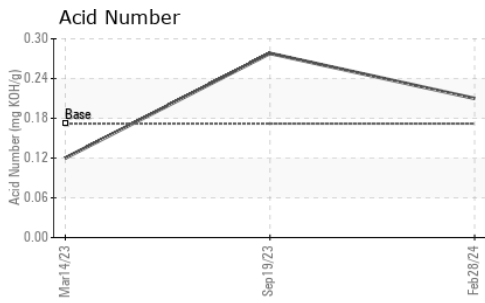
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 1 | 2 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 1 | 0 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | LIGHT | 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 | >0.1 | NEG | NEG | NEG |

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|-------|-------------|-------|------|
| Sodium | ppm | ASTM D5185m | | 0 | 1 | 1 |
| Boron | ppm | ASTM D5185m | 0.0 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 0.0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | 0 | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 0.0 | 0 | 2 | 2 |
| Calcium | ppm | ASTM D5185m | 0.0 | 0 | <1 | <1 |
| Phosphorus | ppm | ASTM D5185m | 966 | 613 | 633 | 580 |
| Zinc | ppm | ASTM D5185m | 0 | 0 | 0 | 1 |
| Sulfur | ppm | ASTM D5185m | 1309 | 766 | 1243 | 289 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.172 | 0.21 | 0.278 | 0.12 |
| Visc @ 40°C | cSt | ASTM D445 | 39.9 | 42.2 | 41.3 | 37.5 |



Certificate L2367

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

Sample No. : UCS06123837

Lab Number : 06123837

Unique Number : 10937988

Test Package : IND 2

Received : 20 Mar 2024

Tested : 21 Mar 2024

Diagnosed : 22 Mar 2024 - Don Baldrige

JEMCO-MAXAIR

WEST FARGO, ND
US 58078

Contact: DALE K
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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)