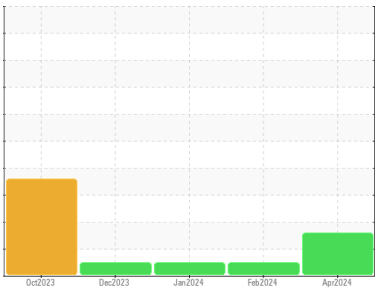
Sullivan Palatek

# OIL ANALYSIS REPORT

Sample Rating Trend




**WATER**

Area
## PALEXTRA 44
Machine Id
## SULLIVAN PALATEK 19KE000559 - CORR CHOICE COMP 1
Component
**Compressor**

## DIAGNOSIS

**Recommendation**
The filter 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 light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

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

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **UCS06160521** | UCS06104425 | UCS06068577 |
| Sample Date | | Client Info | | **20 Apr 2024** | 24 Feb 2024 | 14 Jan 2024 |
| Machine Age | hrs | Client Info | | **39860** | 38516 | 37533 |
| Oil Age | hrs | Client Info | | **1150** | 3000 | 2500 |
| Oil Changed | | Client Info | | **Not Changd** | Changed | Not Changd |
| Sample Status | | | | **ATTENTION** | NORMAL | NORMAL |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >50 | **<1** | <1 | 0 |
| Chromium | ppm | ASTM D5185m | >10 | **<1** | 0 | 0 |
| Nickel | ppm | ASTM D5185m | | **<1** | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | **<1** | 0 | 0 |
| Silver | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | **2** | 0 | 0 |
| Lead | ppm | ASTM D5185m | >25 | **<1** | 0 | <1 |
| Copper | ppm | ASTM D5185m | >50 | **4** | 2 | 1 |
| Tin | ppm | ASTM D5185m | >15 | **<1** | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | **<1** | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | | **<1** | 0 | 0 |

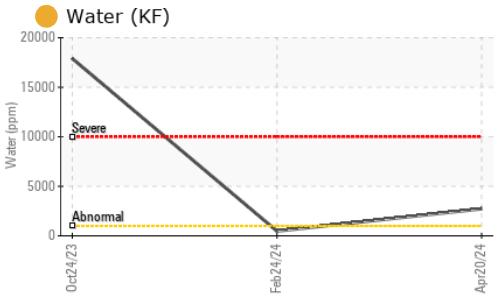
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | 0 | **0** | 2 | 0 |
| Barium | ppm | ASTM D5185m | 0.3 | **0** | 0 | <1 |
| Molybdenum | ppm | ASTM D5185m | 0 | **<1** | 0 | 0 |
| Manganese | ppm | ASTM D5185m | 0.3 | **<1** | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 0.4 | **<1** | 0 | <1 |
| Calcium | ppm | ASTM D5185m | 0 | **0** | 0 | 1 |
| Phosphorus | ppm | ASTM D5185m | 689 | **604** | 451 | 495 |
| Zinc | ppm | ASTM D5185m | 0 | **1** | 0 | 0 |
| Sulfur | ppm | ASTM D5185m | 1237 | **921** | 646 | 589 |

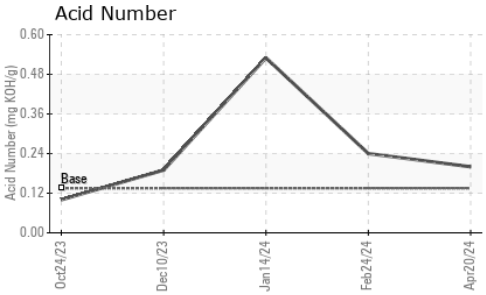
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >25 | **3** | 1 | 2 |
| Sodium | ppm | ASTM D5185m | | **3** | 2 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | **7** | 14 | 8 |
| Water | % | ASTM D6304 | >0.1 | **0.273** | 0.048 | --- |
| ppm Water | ppm | ASTM D6304 | >1000 | **2730** | 480 | --- |

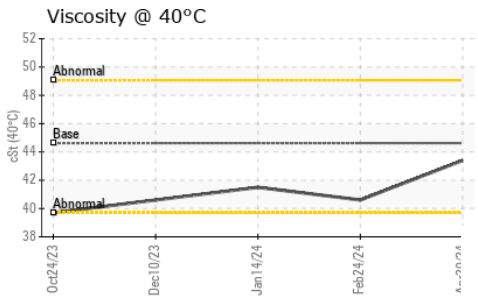
| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.135 | **0.20** | 0.24 | 0.53 |

# OIL ANALYSIS REPORT

Sullivan Palatek



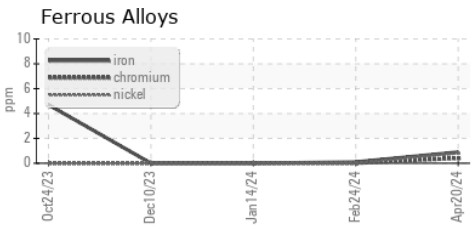



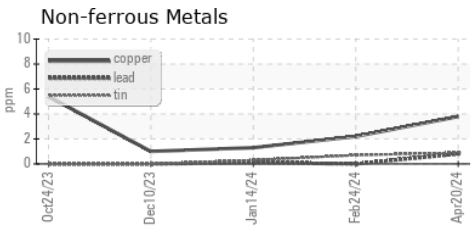

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | NONE |
|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

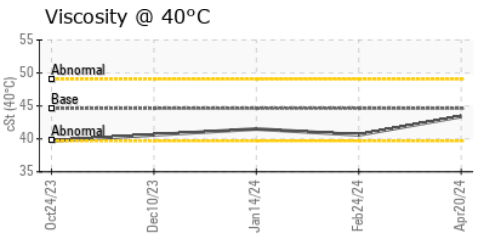
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 44.62 | **43.4** | 40.6 | 41.5 |

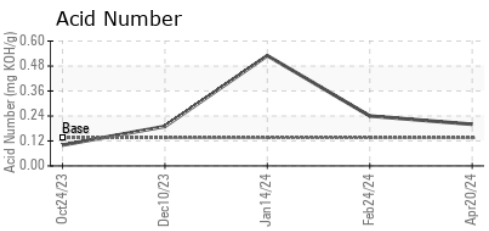
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  | | |
| Bottom | | |  | | |

## GRAPHS




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : UCS06160521
**Lab Number** : 06160521
**Unique Number** : 10995944
**Test Package** : IND 2 ( Additional Tests: KF )

**Received** : 25 Apr 2024
**Tested** : 26 Apr 2024
**Diagnosed** : 30 Apr 2024 - Jonathan Hester

*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)*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