Sullivan Palatek.

OIL ANALYSIS REPORT

Area PALEXTRA 44 **POLAR AIR 261690-EVC - ESTROLD WILLISTON** Component

Compressor

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 no indication of any contamination in the oil.

Fluid Condition

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

| | NORMAL |
|-----------------|--------|
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| | |
| Feb2023 Jan2024 | |

Sample Rating Trend

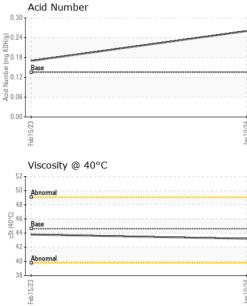


| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|------------------|---------------|-------------|------------|-------------|-------------|----------|
| Sample Number | | Client Info | | UCS06065725 | UCS05774042 | |
| Sample Date | | Client Info | | 10 Jan 2024 | 15 Feb 2023 | |
| Machine Age | hrs | Client Info | | 8418 | 6736 | |
| Oil Age | hrs | Client Info | | 1000 | 3000 | |
| Oil Changed | | Client Info | | Not Changd | Changed | |
| Sample Status | | | | NORMAL | NORMAL | |
| CONTAMINATIO | N | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.1 | NEG | NEG | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >50 | <1 | 0 | |
| Chromium | ppm | ASTM D5185m | >10 | 0 | 0 | |
| Nickel | ppm | ASTM D5185m | | 0 | 0 | |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | |
| Silver | ppm | ASTM D5185m | | 0 | 0 | |
| Aluminum | ppm | ASTM D5185m | >25 | 0 | 0 | |
| Lead | ppm | ASTM D5185m | >25 | 0 | 0 | |
| Copper | ppm | ASTM D5185m | >50 | <1 | 0 | |
| Tin | ppm | ASTM D5185m | >15 | 0 | 0 | |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | <1 | 0 | |
| Barium | ppm | ASTM D5185m | 0.3 | 0 | 1 | |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | 0 | |
| Manganese | ppm | ASTM D5185m | 0.3 | 0 | 0 | |
| Magnesium | ppm | ASTM D5185m | 0.4 | 0 | 0 | |
| Calcium | ppm | ASTM D5185m | 0 | 0 | 0 | |
| Phosphorus | ppm | ASTM D5185m | 689 | 315 | 544 | |
| Zinc | ppm | ASTM D5185m | 0 | 61 | 13 | |
| Sulfur | ppm | ASTM D5185m | 1237 | 820 | 312 | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 4 | 3 | |
| Sodium | ppm | ASTM D5185m | | 0 | 0 | |
| Potassium | ppm | ASTM D5185m | >20 | 0 | <1 | |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.135 | 0.26 | 0.17 | |



OIL ANALYSIS REPORT

VISUAL



| | - White | e Metal | scalar | *Visual | NONE | NONE | NONE | |
|--|--|---|---|---|---|--------------|------------------------------|--|
| | Yello | w Metal | scalar | *Visual | NONE | NONE | NONE | |
| | Preci | pitate | scalar | *Visual | NONE | NONE | NONE | |
| | Silt | | scalar | *Visual | NONE | NONE | NONE | |
| | Debri | is | scalar | *Visual | NONE | NONE | LIGHT | |
| | Sand | l/Dirt | scalar | *Visual | NONE | NONE | NONE | |
| | Appe | arance | scalar | *Visual | NORML | NORML | NORML | |
| | Odor | | scalar | *Visual | NORML | NORML | NORML | |
| | Emul | sified Water | scalar | *Visual | >0.1 | NEG | NEG | |
| | Free | Water | scalar | *Visual | | NEG | NEG | |
| | FLL | JID PROPER | RTIES | method | limit/base | current | history1 | history2 |
| | | @ 40°C | cSt | ASTM D445 | 44.62 | 43.2 | 43.8 | |
| | | MPLE IMAGE | | method | limit/base | current | history1 | history2 |
| | _ | | | mothod | | • • • • | | no image |
| | Jan 10/24 | | | | | | | |
| | Botto | m | | | | | | no image |
| | GR | APHS | | | | | | |
| | Fer | rous Alloys | | | | | | |
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| | | iron | | | | | | |
| | 8 | iron chromium nickel | | | | | | |
| | | chromium | | | | | | |
| | 8 | chromium | | | | | | |
| | | chromium | | | 24 | | | |
| | | chromium | | | an 10/24 | | | |
| | 10 8 6 | nickel | alc | | Jan 10/24 | | | |
| | 10 8 6 | chromium | als | | Jan10/24 | | | |
| | 10 T 8 T 2 T 0 CC251 P P F | n-ferrous Meta | als | | Jan 10/24 | | | |
| | 10 8 4 2 0 12/51 19 Nor 10 1 10 1 10 10 10 10 10 10 | n-ferrous Meta | als | | Jan1024 | | | |
| | 10 T 8 T 2 T 0 CC251 P P F | n-ferrous Meta | als | | Jan 10/24 | | | |
| | 10 8 4 2 0 12/51 19 Nor 10 1 10 1 10 10 10 10 10 10 | n-ferrous Meta | als | | Jan 10/24 | | | |
| | 10 T 8 T 2 T 0 EC251 rgg Nor 10 T 0 F 0 EC251 rgg Nor | n-ferrous Meta | als | | | | | |
| | 10 T 8 T 2 T 0 EC251 rgg Nor 10 T 0 F 0 EC251 rgg Nor | n-ferrous Meta | als | | | | | |
| | 10 T widd 2 U 0 F 10 T 10 | n-ferrous Meta | | | Jan10/24 | | | |
| | 10 T widd 2 U 0 F 10 T 10 | n-ferrous Meta | | | Jan 10/24 | Acid Number | | |
| | 10 4 2 0 55 10 10 10 10 10 10 10 10 10 10 | n-ferrous Meta | | | Jan 10/24 | | | |
| | 10 | n-ferrous Meta copper lead cosity @ 40°C | | | Jan 10/24 | | | |
| | 10 T 8 T 10 T 1 | n-ferrous Meta copper lead tin cosity @ 40°C | | | Jan 10/24 | | | |
| | 10 T 8 T 10 T 1 | n-ferrous Meta copper lead cosity @ 40°C | | | Jan 10/24 | | | |
| | 10 4 2 0 CZ/S1(q) Nor 10 4 4 2 0 CZ/S1(q) Visc 55 50 40 45 55 40 45 45 45 45 45 45 45 45 45 45 | n-ferrous Meta copper lead tin cosity @ 40°C | | | (b)(10,030 (b)(10,024 (b)(10,024 (b)(10,024 (b)(10,024 (b)(10,024) | Base | | |
| | 10 4 2 0 CZ/S1(q) Nor 10 4 4 2 0 CZ/S1(q) Visc 55 50 40 45 55 40 45 45 45 45 45 45 45 45 45 45 | n-ferrous Meta copper lead tin cosity @ 40°C | | | (b)(10,030 (b)(10,024 (b)(10,024 (b)(10,024 (b)(10,024 (b)(10,024) | Base | | |
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| Laboratory Sample No | 10 4 2 0 5 5 5 5 5 5 5 5 5 5 5 5 5 | n-ferrous Meta lead cosity @ 40°C ormal rCheck USA - | 501 Madia | | 10,0.30 10,0.00 10, | Base Base | | |
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| Sample No. Lab Number Unique Numb Test Packag | Nor 10 4 2 0 525 19 10 10 10 10 10 10 10 10 10 10 | cosity @ 40°C cosity @ 40°C cosity @ 40°C cosity @ 40°C comal | 501 Madia Recieved Diagnost | d : 19 c ed : 22 c tician : Ang | 10000000000000000000000000000000000000 | Base Base | JE WES | MCO-MAXAI ST FARGO, N US 5807 ontact: DALE |
| Sample No. Lab Number Unique Number | 10 10 10 10 10 10 10 10 10 10 | rCheck USA - 006065725 05725 057107 2 Customer Ser | 501 Madia Recieved Diagnost Diagnost | d : 19 c ed : 22 c tician : Ang 800-237-1369 | 12001 Leng 12001 | Base Base | JE WES Ca dalek@jem | MCO-MAXAI ST FARGO, N US 5807 ontact: DALE nco-maxair.co (701)281-036 |

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