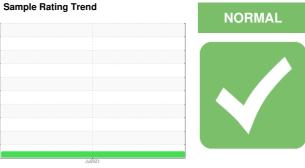
Sullivan Palatek

OIL ANALYSIS REPORT

PALASYN 45
Machine Id
SULLIVAN PALATEK 22JE003340 - UNITED SILICONE

Component

Compressor



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moor

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

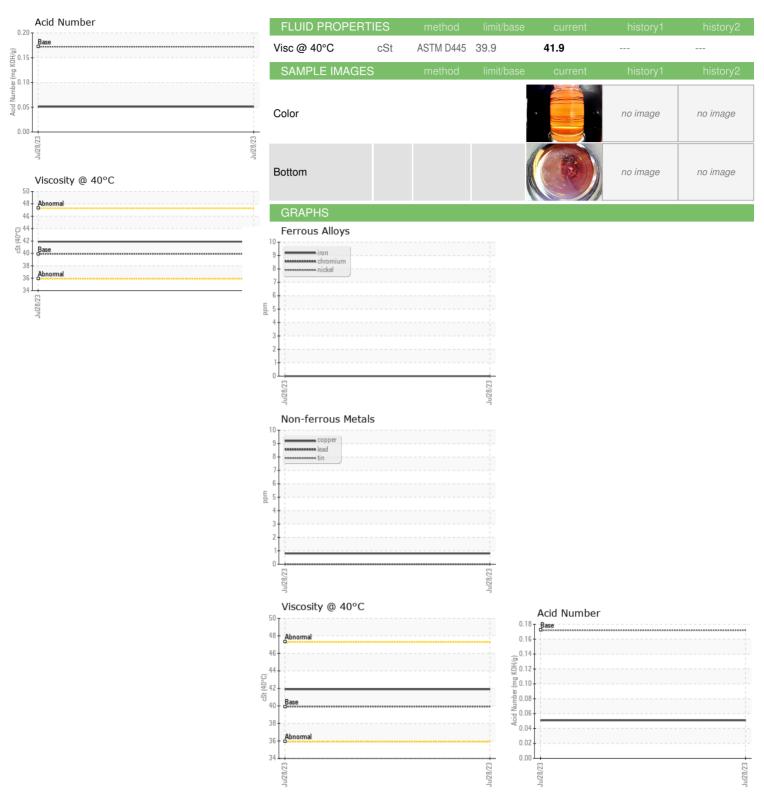
Fluid Condition

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

| Sample Number | | | | | Jul2023 | | |
|--|------------------|----------|-------------|-----------------|---------|---------------|---------------|
| Sample Number | CAMBLE INFOR | MATION | ام مالم میں | | | الاستعادات | history.O. |
| Sample Date Client Info 28 Jul 2023 | | MATION | | ilmit/base | | nistory i | nistory2 |
| Machine Age hrs Client Info 891 | • | | | | | | |
| Oil Age | • | | | | | | |
| Oil Changed Citient Info Not Changd Sample Status NorMAL Sample Status S | | hrs | | | | | |
| NORMAL N | - | hrs | | | | | |
| WEAR METALS method limit/base current history1 history Iron ppm ASTM D5185m >50 0 Chromium ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >25 <1 | | | Client Info | | | | |
| Description | Sample Status | | | | NORMAL | | |
| Chromium | WEAR METALS | | method | limit/base | current | history1 | history2 |
| Nickel | Iron | ppm | ASTM D5185m | >50 | 0 | | |
| Titanium | Chromium | ppm | ASTM D5185m | >10 | 0 | | |
| Silver | Nickel | ppm | ASTM D5185m | | 0 | | |
| Aluminum | Titanium | ppm | ASTM D5185m | | 0 | | |
| Lead | Silver | ppm | ASTM D5185m | | 0 | | |
| Lead | Aluminum | ppm | ASTM D5185m | >25 | <1 | | |
| Copper | Lead | | ASTM D5185m | >25 | 0 | | |
| Tin | Copper | | ASTM D5185m | >50 | <1 | | |
| Vanadium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history Boron ppm ASTM D5185m 0.0 0 Barium ppm ASTM D5185m 0.0 <1 | • • | | ASTM D5185m | >15 | 0 | | |
| Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0.0 0 Barium ppm ASTM D5185m 0.0 0 Molybdenum ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 0.0 0 Calcium ppm ASTM D5185m 0.0 0 Phosphorus ppm ASTM D5185m 0.0 0 Zinc ppm ASTM D5185m 0 2 Sulfur ppm ASTM D5185m 0 2 Silicon ppm ASTM D5185m >25 6 <td< td=""><td>Vanadium</td><td></td><td>ASTM D5185m</td><td></td><td>0</td><td></td><td></td></td<> | Vanadium | | ASTM D5185m | | 0 | | |
| ADDITIVES | Cadmium | | | | 0 | | |
| Boron | | la la | | Para Difference | | le bet a more | la la tarre O |
| Barium | | | | | | nistory i | nistory2 |
| Molybdenum ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 0.0 0 Calcium ppm ASTM D5185m 0.0 0 Phosphorus ppm ASTM D5185m 0.0 2 Zinc ppm ASTM D5185m 0 2 Sulfur ppm ASTM D5185m 1309 1366 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 6 Sodium ppm ASTM D5185m >20 <1 | | ppm | | 0.0 | | | |
| Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 0.0 0 Calcium ppm ASTM D5185m 0.0 0 Phosphorus ppm ASTM D5185m 966 573 Zinc ppm ASTM D5185m 0 2 Sulfur ppm ASTM D5185m 1309 1366 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 6 Sodium ppm ASTM D5185m >20 <1 | | ppm | | | | | |
| Magnesium ppm ASTM D5185m 0.0 0 Calcium ppm ASTM D5185m 0.0 0 Phosphorus ppm ASTM D5185m 966 573 Zinc ppm ASTM D5185m 0 2 Sulfur ppm ASTM D5185m 1309 1366 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 6 Sodium ppm ASTM D5185m >20 <1 | • | ppm | | - | - | | |
| Calcium ppm ASTM D5185m 0.0 0 Phosphorus ppm ASTM D5185m 966 573 Zinc ppm ASTM D5185m 0 2 Sulfur ppm ASTM D5185m 1309 1366 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 6 Sodium ppm ASTM D5185m >20 <1 | · · | ppm | | | - | | |
| Phosphorus ppm ASTM D5185m 966 573 Zinc ppm ASTM D5185m 0 2 Sulfur ppm ASTM D5185m 1309 1366 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 6 Sodium ppm ASTM D5185m >20 <1 | | ppm | | | | | |
| Zinc | | ppm | | | - | | |
| Sulfur ppm ASTM D5185m 1309 1366 CONTAMINANTS method limit/base current history1 history3 Silicon ppm ASTM D5185m >25 6 Sodium ppm ASTM D5185m >20 <1 Potassium ppm ASTM D5185m >20 <1 FLUID DEGRADATION method limit/base current history1 history1 Acid Number (AN) mg KOH/g ASTM D8045 0.172 0.051 VISUAL method limit/base current history1 history1 VISUAL method limit/base current history1 history2 VISUAL mone NonE Visual NONE NoNE Yellow Metal scalar *Visual NONE NONE <td< td=""><td>Phosphorus</td><td>ppm</td><td>ASTM D5185m</td><td>966</td><td></td><td></td><td></td></td<> | Phosphorus | ppm | ASTM D5185m | 966 | | | |
| CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 Sodium ppm ASTM D5185m >20 <1 | Zinc | ppm | ASTM D5185m | 0 | 2 | | |
| Silicon | Sulfur | ppm | ASTM D5185m | 1309 | 1366 | | |
| Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 <1 | CONTAMINANTS | 3 | method | limit/base | current | history1 | history2 |
| Potassium ppm ASTM D5185m >20 <1 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.172 0.051 VISUAL method limit/base current history1 history2 White Metal scalar *Visual 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 NORML NORML Appearance scalar *Visual NORML NORML Codor scalar <td>Silicon</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>25</td> <td>6</td> <td></td> <td></td> | Silicon | ppm | ASTM D5185m | >25 | 6 | | |
| FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.172 0.051 VISUAL method limit/base current history1 history2 White Metal scalar *Visual 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 NORML NORML Appearance scalar *Visual NORML NORML Codor scalar *Visual NORML NORML Emulsified Water scalar | Sodium | ppm | ASTM D5185m | | 0 | | |
| Acid Number (AN) mg KOH/g ASTM D8045 0.172 0.051 VISUAL method limit/base current history1 history2 White Metal scalar *Visual 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 >0.1 NEG | Potassium | ppm | ASTM D5185m | >20 | <1 | | |
| VISUAL method limit/base current history1 history1 White Metal scalar *Visual 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 NORML NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG | FLUID DEGRAD | ATION | 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 NORML NORML Appearance scalar *Visual NORML NORML Codor scalar *Visual >0.1 NEG | Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.172 | 0.051 | | |
| 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 Codor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG | VISUAL | | method | limit/base | current | history1 | history2 |
| 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 >0.1 NEG | White 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 >0.1 NEG | Yellow Metal | 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 >0.1 NEG | Precipitate | | *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 >0.1 NEG | · | scalar | | NONE | NONE | | |
| Sand/Dirt scalar *Visual NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG | Debris | | *Visual | NONE | NONE | | |
| Appearance scalar *Visual NORML NORML COdor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG | | | | | | | |
| Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG | | | | | | | |
| Emulsified Water scalar *Visual >0.1 NEG | | | | | | | |
| | | | | | | | |
| LICE VIGICI SUGIAL VISUAL INCL | Free Water | scalar | *Visual | | NEG | | |

Sullivan

OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10628976 Test Package : IND 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : UCS05938364 Received : 05938364 Diagnosed

: 30 Aug 2023 : 31 Aug 2023 Diagnostician : Angela Borella

MICHIGAN CITY, IN Contact: JANICE MITCHELL

jmitchell@palatek.com T: (219)874-2497

SULLIVAN PALATEK

1201 US HWY 20 WEST

* - 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)

F: (219)878-8543

US 46360