



OIL ANALYSIS REPORT

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

Area
INSULATING/INS - LINE 2
 Machine Id
INSULATOR #2 EXTRUDER GBX (S/N 9962)
 Component
Gearbox
 Fluid
JAX SYNGEAR INDUSTRIAL GEAR ISO 220 (2 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | IB0000213 | IB0000269 | IB0000243 |
| Sample Date | | Client Info | | 23 May 2023 | 14 Sep 2022 | 16 May 2022 |
| Machine Age | hrs | Client Info | | 97122 | 92615 | 90226 |
| Oil Age | hrs | Client Info | | 46537 | 42030 | 39641 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >200 | 8 | 8 | 7 |
| Chromium | ppm | ASTM D5185m | >15 | <1 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >15 | <1 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >25 | 1 | 2 | <1 |
| Lead | ppm | ASTM D5185m | >100 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >200 | 1 | <1 | <1 |
| Tin | ppm | ASTM D5185m | >25 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | MODER | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

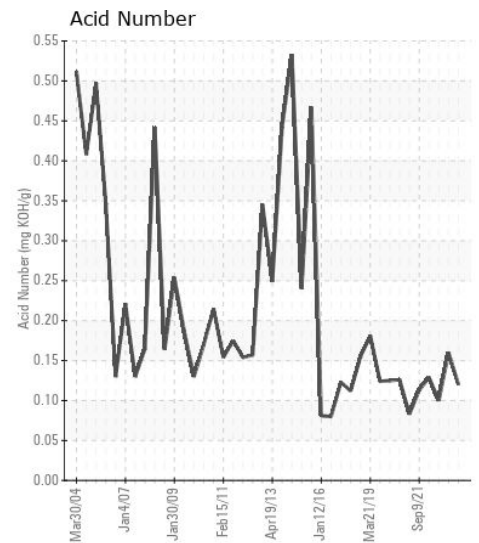
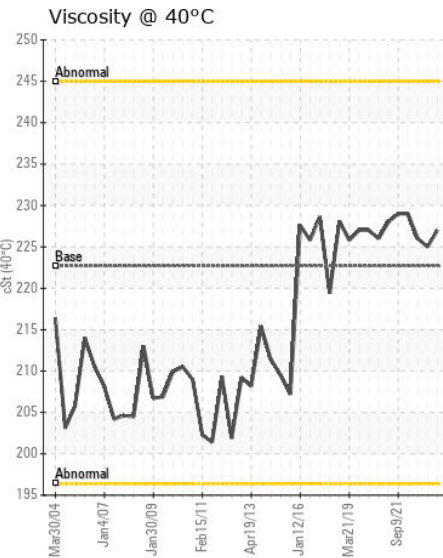
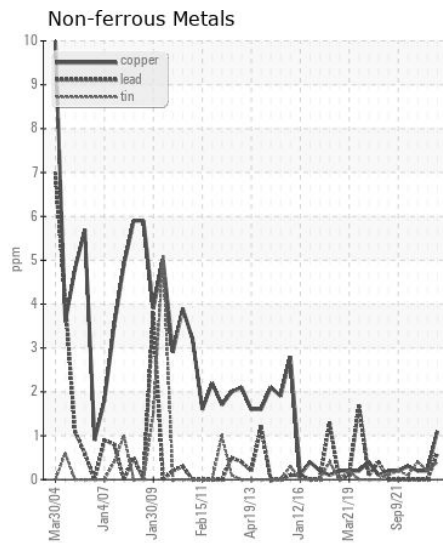
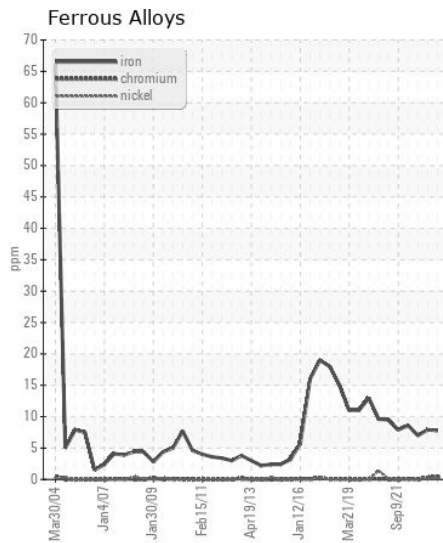
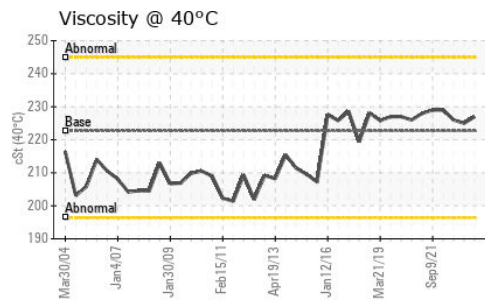
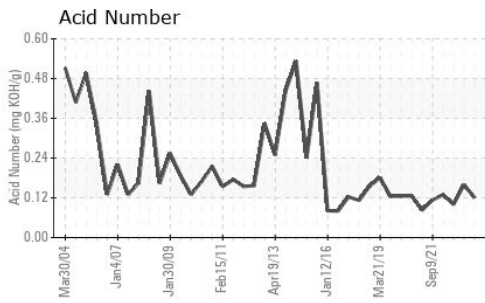
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >50 | 3 | <1 | 1 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | <1 | 0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | 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 | >0.2 | 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 | | <1 | 0 | 0 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 1 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | | 3 | <1 | 0 |
| Calcium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185m | | 500 | 481 | 498 |
| Zinc | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Sulfur | ppm | ASTM D5185m | | 1266 | 1389 | 1246 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.12 | 0.16 | 0.10 |
| Visc @ 40°C | cSt | ASTM D445 | 222.7 | 227 | 225 | 226 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IB0000213
Lab Number : 05858157
Unique Number : 10492622
Test Package : IND 2

Received : 26 May 2023
Tested : 30 May 2023
Diagnosed : 30 May 2023 - Wes Davis

SUPERIOR TELECOMMUNICATIONS INC
 75 EAST STATE RD 4
 HOISINGTON, KS
 US 67544

Contact: BRIAN STEJSKAL
 JON.FAZENBAKER@WEARCHECK.COM; brian.stejskal@spx.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)

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