



OIL ANALYSIS REPORT

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

Area  
**INSULATING/INS - LINE 8**  
 Machine Id  
**INSULATOR #8 WIREDRAW GBX (S/N 10.120.31)**  
 Component  
**Gearbox**  
 Fluid  
**JAX SYNGEAR INDUSTRIAL GEAR ISO 220 (12 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>IB0000346</b>   | IB0000318   | IB0000219   |
| Sample Date    |     | Client Info |           | <b>27 Jun 2024</b> | 23 May 2023 | 06 Jul 2022 |
| Machine Age    | hrs | Client Info |           | <b>57584</b>       | 55209       | 52835       |
| Oil Age        | hrs | Client Info |           | <b>26205</b>       | 23650       | 21456       |
| Filter Age     | hrs | Client Info |           | <b>2476</b>        | 3064        | 870         |
| Oil Changed    |     | Client Info |           | <b>Not Changd</b>  | Not Changd  | Not Changd  |
| Filter Changed |     | Client Info |           | <b>Not Changd</b>  | Not Changd  | Not Changd  |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

**WEAR**

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185m | >200 | <b>4</b>     | 1    | 1    |
| Chromium     | ppm    | ASTM D5185m | >15  | <b>0</b>     | <1   | 0    |
| Nickel       | ppm    | ASTM D5185m | >15  | <b>&lt;1</b> | <1   | 0    |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>     | <1   | 0    |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | <1   | 0    |
| Aluminum     | ppm    | ASTM D5185m | >25  | <b>0</b>     | 1    | 1    |
| Lead         | ppm    | ASTM D5185m | >100 | <b>0</b>     | <1   | <1   |
| Copper       | ppm    | ASTM D5185m | >200 | <b>2</b>     | 5    | 2    |
| Tin          | ppm    | ASTM D5185m | >25  | <b>0</b>     | <1   | <1   |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | <1   | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

**CONTAMINATION**

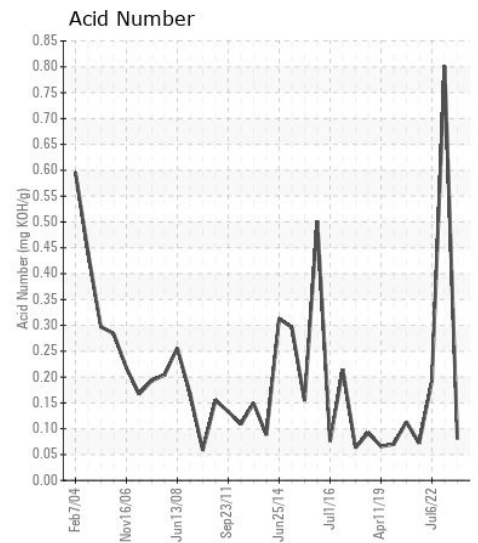
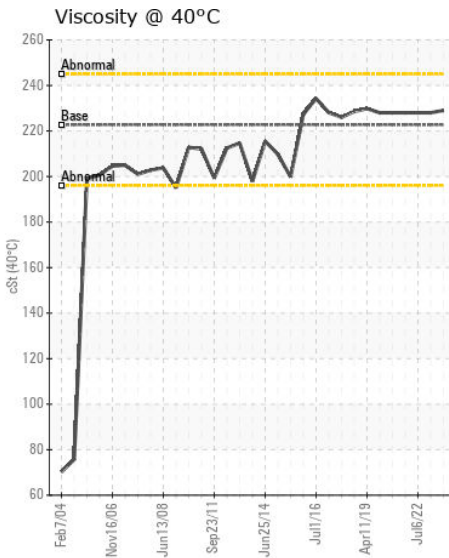
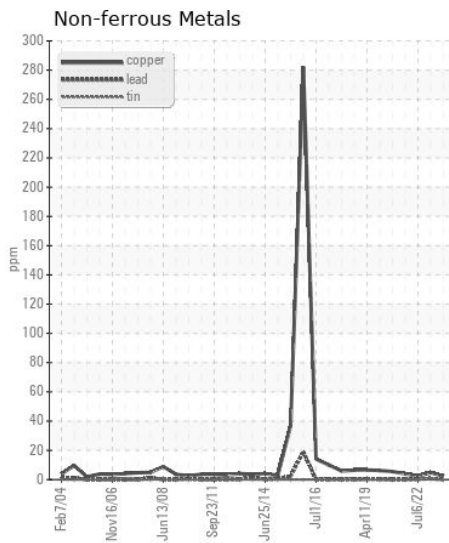
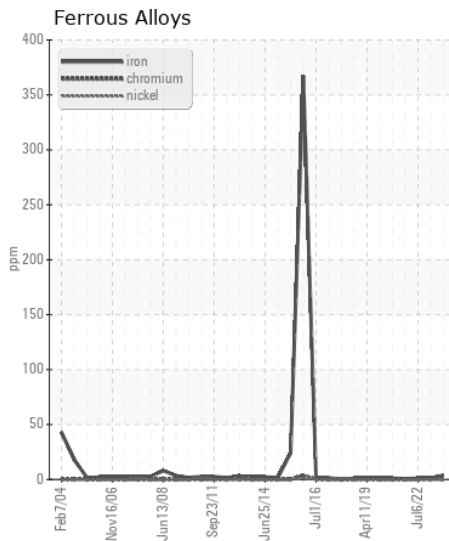
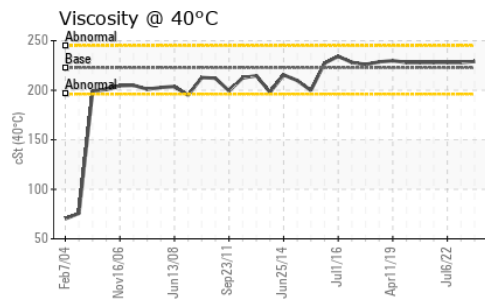
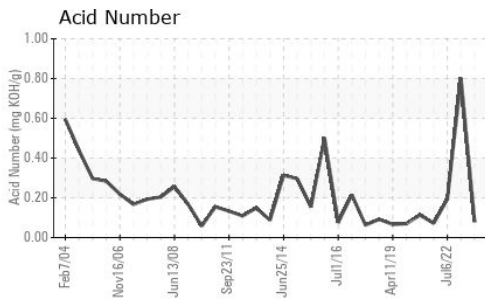
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >50   | <b>22</b>    | 23    | 17    |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>1</b>     | 2     | <1    |
| Water            |        | WC Method   | >0.2  | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b> | NORML | NORML |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b> | NORML | NORML |
| Emulsified Water | scalar | *Visual     | >0.2  | <b>NEG</b>   | 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 |       | <b>1</b>     | 2     | 0     |
| Boron            | ppm      | ASTM D5185m |       | <b>0</b>     | 0     | <1    |
| Barium           | ppm      | ASTM D5185m |       | <b>0</b>     | 0     | 2     |
| Molybdenum       | ppm      | ASTM D5185m |       | <b>0</b>     | <1    | 0     |
| Manganese        | ppm      | ASTM D5185m |       | <b>&lt;1</b> | <1    | 0     |
| Magnesium        | ppm      | ASTM D5185m |       | <b>0</b>     | 5     | <1    |
| Calcium          | ppm      | ASTM D5185m |       | <b>0</b>     | 0     | 0     |
| Phosphorus       | ppm      | ASTM D5185m |       | <b>498</b>   | 474   | 361   |
| Zinc             | ppm      | ASTM D5185m |       | <b>0</b>     | 0     | 2     |
| Sulfur           | ppm      | ASTM D5185m |       | <b>1448</b>  | 1557  | 1139  |
| Acid Number (AN) | mg KOH/g | ASTM D8045  |       | <b>0.08</b>  | 0.801 | 0.193 |
| Visc @ 40°C      | cSt      | ASTM D445   | 222.7 | <b>229</b>   | 228   | 228   |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IB0000346  
**Lab Number** : 06226404  
**Unique Number** : 11109897  
**Test Package** : IND 2

**Received** : 02 Jul 2024  
**Tested** : 03 Jul 2024  
**Diagnosed** : 03 Jul 2024 - Wes Davis

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

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

T: (620)653-1957

F: (620)653-1956