



OIL ANALYSIS REPORT

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

Machine Id
SENNEBOGEN 830 1777
Component
Diesel Engine
Fluid
IRVING 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0896349 | WC0849322 | VCP379518 |
| Sample Date | | Client Info | | 19 Feb 2024 | 05 Oct 2023 | 28 Feb 2023 |
| Machine Age | hrs | Client Info | | 31000 | 30500 | 30000 |
| Oil Age | hrs | Client Info | | 500 | 500 | 500 |
| Filter Age | hrs | Client Info | | 500 | 500 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|----------|-----|---------------|------|--------------|----|----|
| Iron | ppm | ASTM D5185(m) | >100 | 13 | 13 | 16 |
| Chromium | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >4 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >20 | 3 | 2 | 3 |
| Lead | ppm | ASTM D5185(m) | >40 | 2 | 2 | 4 |
| Copper | ppm | ASTM D5185(m) | >330 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >15 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

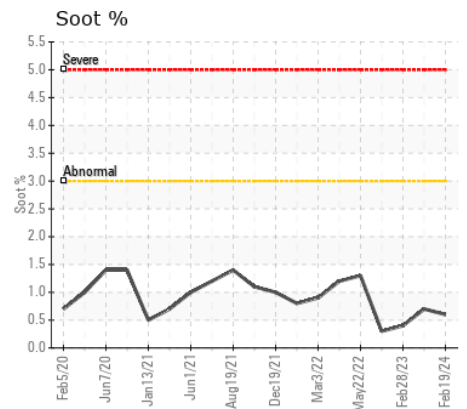
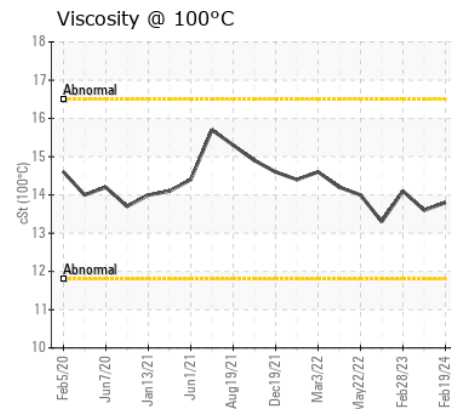
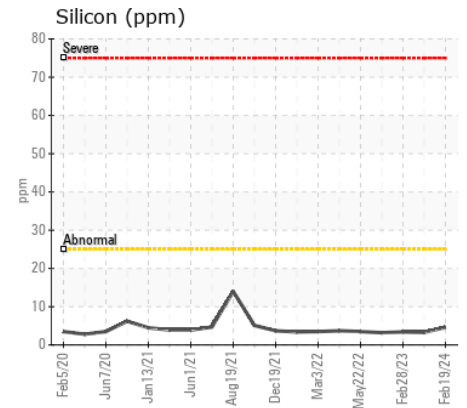
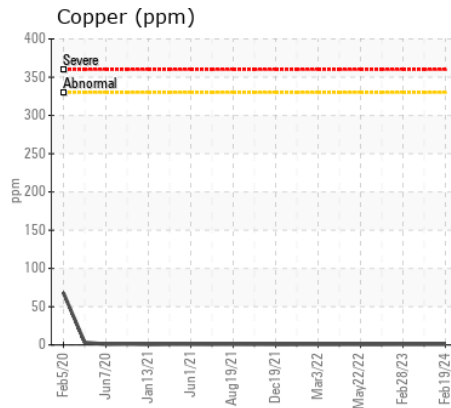
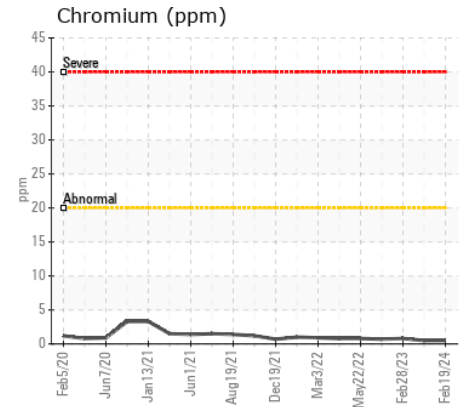
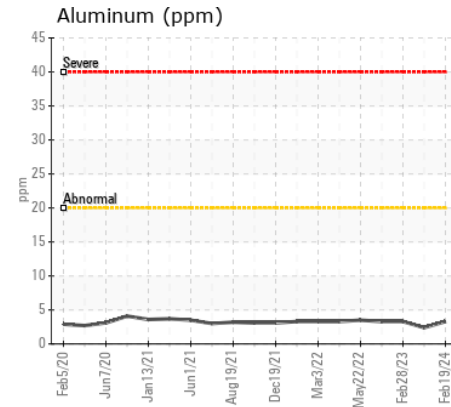
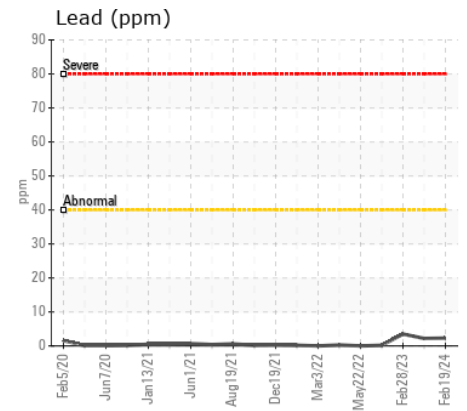
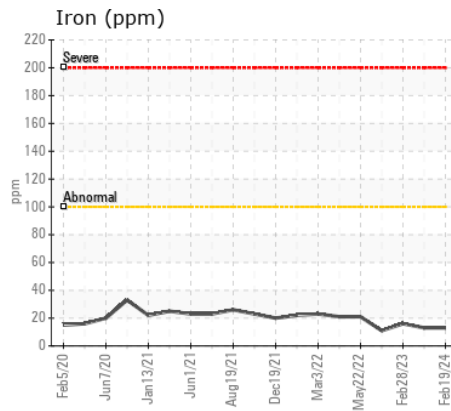
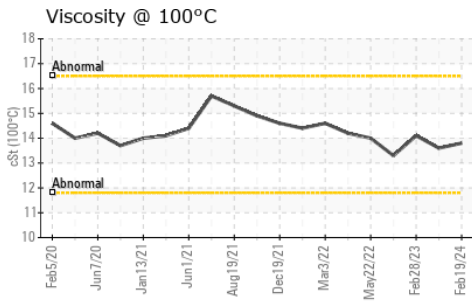
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon | ppm | ASTM D5185(m) | >25 | 5 | 3 | 3 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | 1 | <1 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | ASTM D7844* | >3 | 0.6 | 0.7 | 0.4 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 9.6 | 10.7 | 10.1 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 20.6 | 21.8 | 24.5 |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

| | | | | | | |
|--------------|----------|---------------|------|-------------|------|------|
| Sodium | ppm | ASTM D5185(m) | >101 | 1 | 2 | <1 |
| Boron | ppm | ASTM D5185(m) | | 44 | 33 | 42 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 4 | 5 | 6 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185(m) | | 34 | 35 | 39 |
| Calcium | ppm | ASTM D5185(m) | | 2210 | 2285 | 2427 |
| Phosphorus | ppm | ASTM D5185(m) | | 978 | 1015 | 1093 |
| Zinc | ppm | ASTM D5185(m) | | 1153 | 1245 | 1199 |
| Sulfur | ppm | ASTM D5185(m) | | 3361 | 3169 | 3250 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 15.5 | 16.7 | 16.8 |
| Visc @ 100°C | cSt | ASTM D7279(m) | | 13.8 | 13.6 | 14.1 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0896349 **Received** : 05 Mar 2024
Lab Number : 02619861 **Tested** : 05 Mar 2024
Unique Number : 5736971 **Diagnosed** : 05 Mar 2024 - Wes Davis
Test Package : MOB 1

INTERFOR CORP
 5060 RTE 430
 BRUNSWICK MINE, NB
 CA E2A 6W6
 Contact: Daniel Hachey
 daniel.hachey@interfor.com
 T: (506)547-8700
 F: (506)548-1892

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.