

OIL ANALYSIS REPORT

Sample Rating Trend

VISUAL METAL

DSC194 HERK WAY LUBE

Component

Gear Lube System

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

Iron ppm levels are abnormal. Gear wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

Contamination

There is no indication of any contamination in the oil.

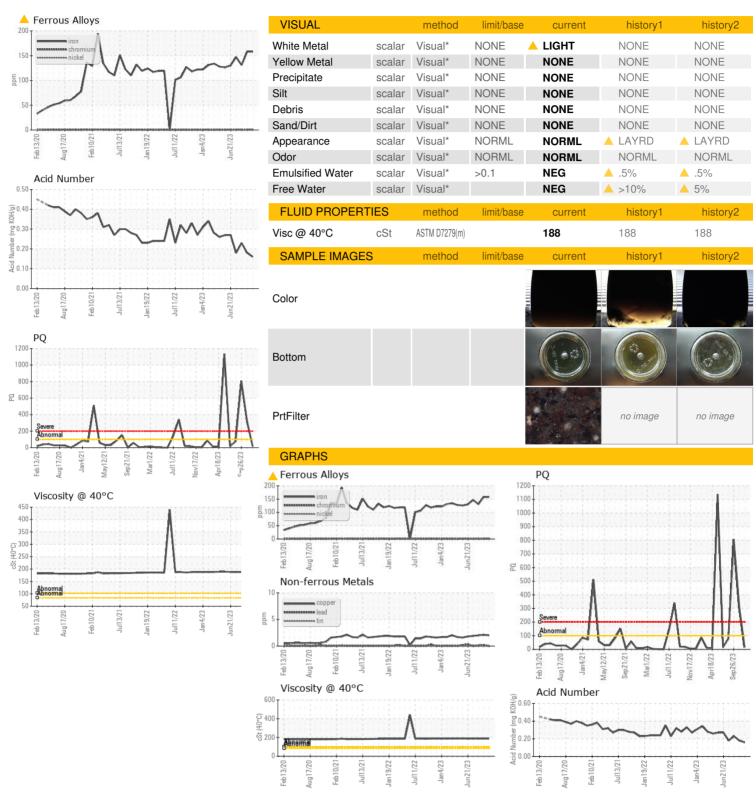
Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
|------------------|----------|---------------|------------|-------------|---------------|--------------|
| Sample Number | | Client Info | | WC0837564 | WC0837319 | WC0837317 |
| Sample Date | | Client Info | | 18 Jan 2024 | 14 Nov 2023 | 26 Sep 2023 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |
| CONTAMINATION | V | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| PQ | | ASTM D8184* | | 15 | △ 318 | ▲ 807 |
| Iron | ppm | ASTM D5185(m) | >150 | <u> 158</u> | <u></u> ▲ 158 | 131 |
| Chromium | ppm | ASTM D5185(m) | >10 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >10 | 2 | 1 | 1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >25 | <1 | <1 | <1 |
| Lead | ppm | ASTM D5185(m) | >100 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185(m) | >50 | 2 | 2 | 2 |
| Tin | ppm | ASTM D5185(m) | >10 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185(m) | >5 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Beryllium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185(m) | | <1 | 1 | <1 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | | 1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | | 1 | <1 | <1 |
| Calcium | ppm | ASTM D5185(m) | | 11 | 4 | 2 |
| Phosphorus | ppm | ASTM D5185(m) | | 14 | 14 | 15 |
| Zinc | ppm | ASTM D5185(m) | | 3 | 1 | <1 |
| Sulfur | ppm | ASTM D5185(m) | | 3119 | 2895 | 2912 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| CONTAMINANTS | 1 | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185(m) | >50 | 3 | 4 | 3 |
| Sodium | ppm | ASTM D5185(m) | | 9 | 8 | 6 |
| Potassium | ppm | ASTM D5185(m) | >20 | 2 | 0 | <1 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D974* | | 0.16 | ▲ 0.18 | 0.23 |



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: 5711468

: WC0837564 : 02610382

Recieved Diagnosed

: 22 Jan 2024 : 23 Jan 2024

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 ALGOMA STEEL INC. - STORES DEPT. 301 WALLACE TERRACE SAULT STE MARIE, ON **CA P6C 1K8**

Diagnostician : Kevin Marson Test Package : IND 2 (Additional Tests: BottomAnalysis, FILTERPATCH, TAN Man)

Contact: Algoma Reliability algomareliability@algoma.com

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.

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