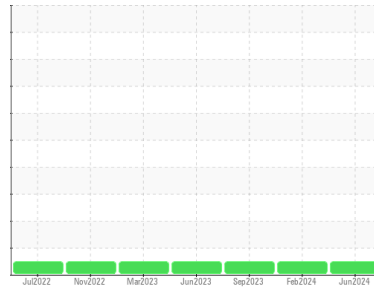




GREASE ANALYSIS

Sample Rating Trend



NORMAL



Area

Direct Strip Mill/Caster

Machine Id

DSPC TURRET GREASE SOUTH WEST (DSC223)

Component

Grease

Fluid

FUCHS RENOLIT SUPERPLEX 2 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Grease Condition

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

Contaminants

There is no indication of any contamination in the grease.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | | WC0948032 | WC0652684 | WC0652682 |
| Sample Date | Client Info | | | 22 Jun 2024 | 26 Feb 2024 | 25 Sep 2023 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Grease Age | hrs | Client Info | | 0 | 0 | 0 |
| Grease Serviced | Client Info | | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

| CONTAMINATION | | 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* | >200 | 720 | 20 | 620 |
| Iron | ppm | ASTM D5185(m) | >250 | 47 | 22 | 70 |
| Chromium | ppm | ASTM D5185(m) | >10 | <1 | 0 | <1 |
| Nickel | ppm | ASTM D5185(m) | >5 | <1 | <1 | <1 |
| Cadmium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185(m) | >25 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185(m) | >75 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >5 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >5 | 0 | 0 | <1 |

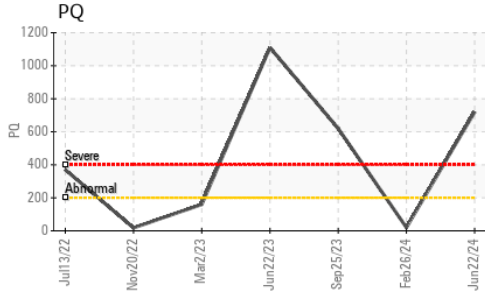
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|---------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | | 3 | 4 | 2 |
| Manganese | ppm | ASTM D5185(m) | | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 7 | 4 | 8 |
| Phosphorus | ppm | ASTM D5185(m) | | 1 | 0 | 1 |
| Zinc | ppm | ASTM D5185(m) | | 1 | 1 | <1 |
| Antimony | ppm | ASTM D5185(m) | | 62 | 63 | 64 |

| THICKENER/SOAP | | method | limit/base | current | history1 | history2 |
|----------------|-----|---------------|------------|--------------|----------|----------|
| Aluminum | ppm | ASTM D5185(m) | | 256 | 257 | 265 |
| Barium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| Calcium | ppm | ASTM D5185(m) | | 32 | 20 | 11 |
| Sodium | ppm | ASTM D5185(m) | | 16 | 16 | 32 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| Sulfur | ppm | ASTM D5185(m) | | 416 | 488 | 447 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|---------------|------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) | >150 | 16 | 13 | 4 |
| Potassium | ppm | ASTM D5185(m) | | <1 | <1 | 0 |

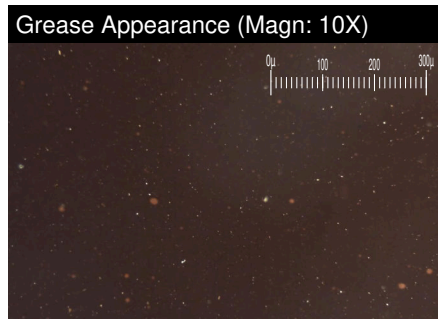
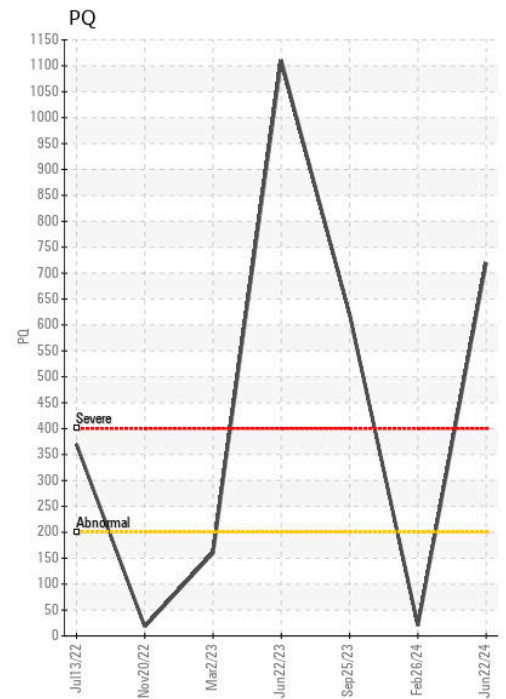
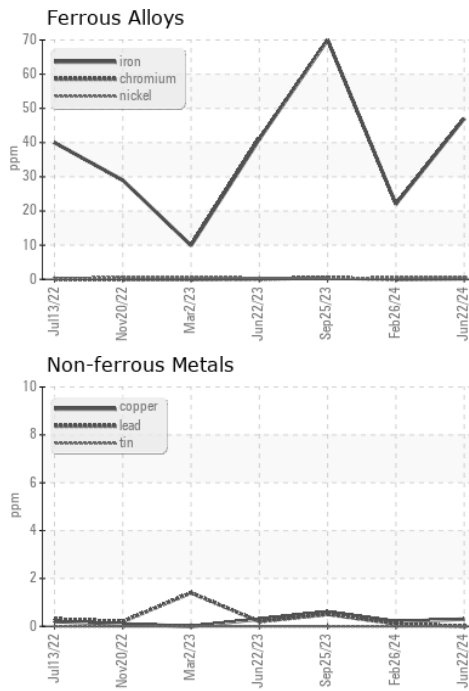
| GREASE CONDITION | | method | limit/base | current | history1 | history2 |
|------------------|------------|-------------|------------|--------------|----------|------------|
| Grease Color | Visual* | | Black | Black | Black | Black |
| Texture | In-house* | | Tacky | Tacky | Tacky | Long fiber |
| NLGI Consistency | NLGI Scale | SKF Method* | 2 | 1-2 | 2 | 1-2 |

GREASE ANALYSIS



| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
| Color | | | | | |
| Bottom | | | | | |
| PrtFilter | | | | | |

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0948032
Lab Number : 02644076
Unique Number : 5801615
Test Package : GRS 1 (Additional Tests: BottomAnalysis)
Received : 25 Jun 2024
Tested : 26 Jun 2024
Diagnosed : 26 Jun 2024 - Bill Quesnel

ALGOMA STEEL INC. - STORES DEPT.
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 SAULT STE MARIE, ON
 CA P6C 1K8
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 algomareliability@algoma.com
 T: (705)206-1059
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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.