



LIEBHERR

COOLANT REPORT

CORROSION

NORMAL

CONTAMINANTS

NORMAL

COOLANT CONDITION

ABNORMAL



Machine Id
LIEBHERR LH50 124550
Component
Coolant
Fluid
HYBRID (HOAT) COOLANT (--- GAL)

RECOMMENDATION

We recommend drain system, and refill with 50/50 antifreeze water mixture. We advise that you replenish the supplemental coolant additives (SCAs) and add per manufacturer's specifications. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number | | Client Info | | LH0278737 | --- | --- |
| Sample Date | | Client Info | | 06 Mar 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 0 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Not Chngd | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |

CORROSION

All metal levels are normal indicating no corrosion in the cooling system.

| | | | | | | |
|----------|-----|---------------|-----|----------|-----|-----|
| Iron | ppm | ASTM D5185(m) | >15 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185(m) | >10 | 2 | --- | --- |
| Copper | ppm | ASTM D5185(m) | >10 | 2 | --- | --- |
| Lead | ppm | ASTM D5185(m) | >10 | 0 | --- | --- |
| Tin | ppm | ASTM D5185(m) | >10 | 0 | --- | --- |
| Silver | ppm | ASTM D5185(m) | >10 | 1 | --- | --- |
| Zinc | ppm | ASTM D5185(m) | >10 | 4 | --- | --- |

CONTAMINANTS

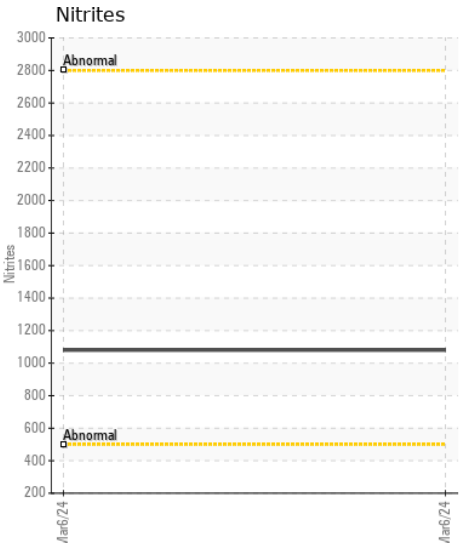
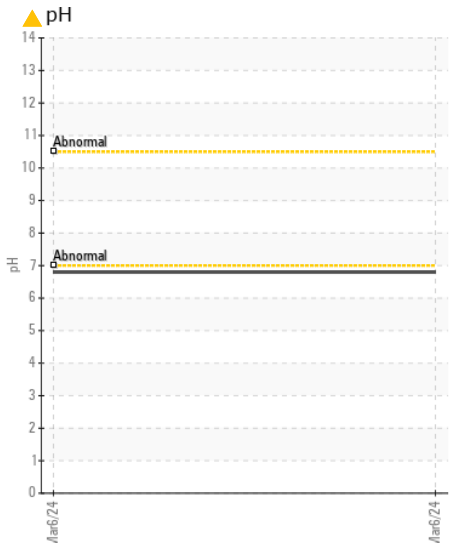
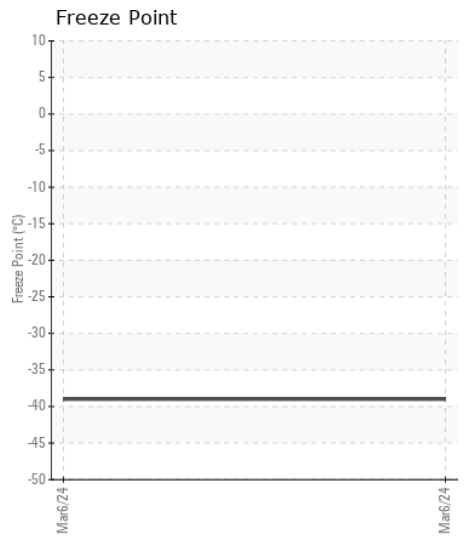
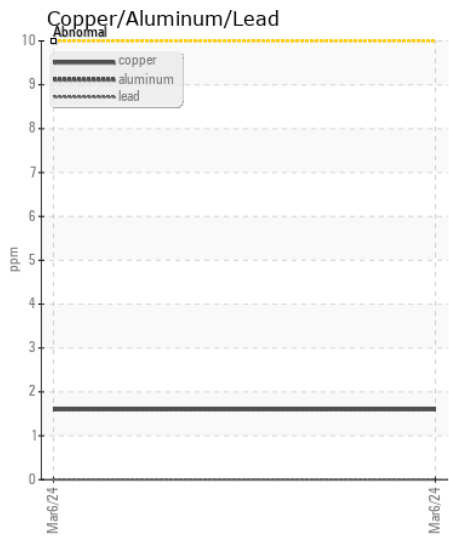
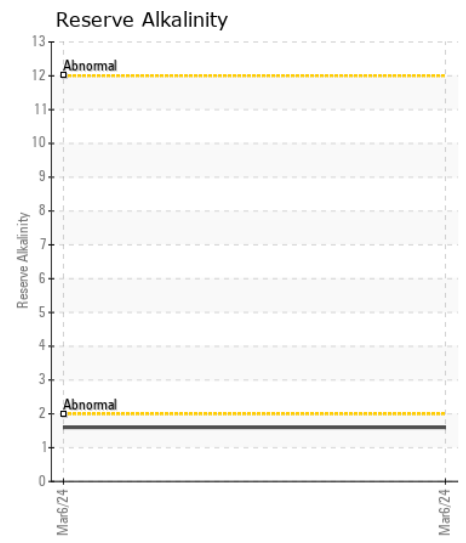
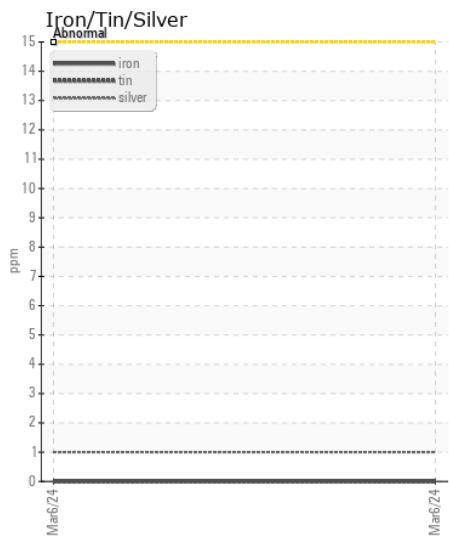
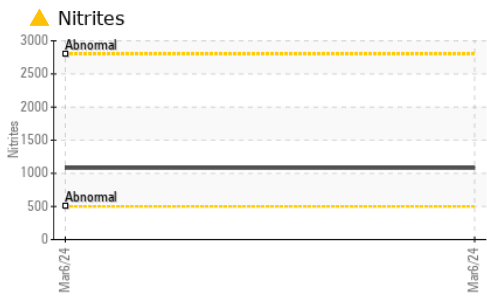
There is no indication of any contamination in the coolant.

| | | | | | | |
|--------------------|--------|---------------|-------|--------------|-----|-----|
| Calcium | ppm | ASTM D5185(m) | >100 | 12 | --- | --- |
| Magnesium | ppm | ASTM D5185(m) | >40 | 4 | --- | --- |
| Appearance | scalar | Visual* | NORML | NORML | --- | --- |
| Odor | scalar | Visual* | NORML | NORML | --- | --- |
| Coolant Appearance | | Visual* | Clear | Clear | --- | --- |

COOLANT CONDITION

The nitrite level is acceptable. The pH is low which causes rust formation.

| | | | | | | |
|--------------------|------------|-----------------|--|--------------|-----|-----|
| Specific Gravity | | ASTM D1298* | | 1.069 | --- | --- |
| pH | Scale 0-14 | ASTM D1287* | | 6.80 | --- | --- |
| Nitrites | ppm | Alcan Test Kit* | | 1080 | --- | --- |
| Reserve Alkalinity | Scale 0-20 | ASTM D1121* | | 1.6 | --- | --- |
| Percentage Glycol | % | ASTM D3321* | | 51.6 | --- | --- |
| Freezing Point | °C | ASTM D3321* | | -39 | --- | --- |
| Carboxylate | | | | --- | --- | --- |
| Silicon | ppm | ASTM D5185(m) | | 8 | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) | | 6 | --- | --- |
| Boron | ppm | ASTM D5185(m) | | 16 | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) | | 28 | --- | --- |
| Sodium | ppm | ASTM D5185(m) | | 6908 | --- | --- |
| Potassium | ppm | ASTM D5185(m) | | 348 | --- | --- |
| Coolant Color | | Visual* | | Pink | --- | --- |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0278737
Lab Number : 02620695
Unique Number : 5737805
Test Package : COOL (Additional Tests: GlycolType)
Received : 07 Mar 2024
Tested : 08 Mar 2024
Diagnosed : 08 Mar 2024 - Kevin Marson

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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.