



# COOLANT REPORT

Sample Rating Trend



PH



Machine Id  
**DOOSAN DL250-5**

Component  
**Rear Coolant**

Fluid  
**DOOSAN 50/50 COOLANT (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

The coolant change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Corrosion

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

### Contaminants

There is no indication of any contamination in the coolant.

### ▲ Coolant Condition

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

## SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info |             | <b>WC0851985</b>   | ---      | ---      |
| Sample Date   | Client Info |             | <b>12 Dec 2023</b> | ---      | ---      |
| Machine Age   | hrs         | Client Info | <b>2500</b>        | ---      | ---      |
| Oil Age       | hrs         | Client Info | <b>2500</b>        | ---      | ---      |
| Oil Changed   | Client Info |             | <b>Changed</b>     | ---      | ---      |
| Sample Status |             |             | <b>ABNORMAL</b>    | ---      | ---      |

## PHYSICAL TEST RESULTS

|                    | method      | limit/base      | current       | history1 | history2 |
|--------------------|-------------|-----------------|---------------|----------|----------|
| Specific Gravity   | ASTM D1298* |                 | <b>1.068</b>  | ---      | ---      |
| pH                 | Scale 0-14  | ASTM D1287*     | <b>▲ 7.54</b> | ---      | ---      |
| Nitrites           | ppm         | Alcan Test Kit* | <b>880</b>    | ---      | ---      |
| Reserve Alkalinity | Scale 0-20  | ASTM D1121*     | <b>6.1</b>    | ---      | ---      |
| Percentage Glycol  | %           | ASTM D3321*     | <b>50.2</b>   | ---      | ---      |
| Freezing Point     | °C          | ASTM D3321*     | <b>-35</b>    | ---      | ---      |
| Carboxylate        |             |                 | <b>---</b>    | ---      | ---      |

## CORROSION INHIBITORS

|            | method | limit/base    | current    | history1 | history2 |
|------------|--------|---------------|------------|----------|----------|
| Silicon    | ppm    | ASTM D5185(m) | <b>16</b>  | ---      | ---      |
| Phosphorus | ppm    | ASTM D5185(m) | <b>839</b> | ---      | ---      |
| Boron      | ppm    | ASTM D5185(m) | <b>17</b>  | ---      | ---      |
| Molybdenum | ppm    | ASTM D5185(m) | <b>25</b>  | ---      | ---      |

## CORROSION

|          | method | limit/base    | current | history1     | history2 |
|----------|--------|---------------|---------|--------------|----------|
| Iron     | ppm    | ASTM D5185(m) | >15     | <b>0</b>     | ---      |
| Aluminum | ppm    | ASTM D5185(m) | >10     | <b>&lt;1</b> | ---      |
| Copper   | ppm    | ASTM D5185(m) | >10     | <b>5</b>     | ---      |
| Lead     | ppm    | ASTM D5185(m) | >10     | <b>0</b>     | ---      |
| Tin      | ppm    | ASTM D5185(m) | >10     | <b>0</b>     | ---      |
| Silver   | ppm    | ASTM D5185(m) | >10     | <b>&lt;1</b> | ---      |
| Zinc     | ppm    | ASTM D5185(m) |         | <b>0</b>     | ---      |

## CARRIER SALTS

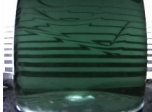

|           | method | limit/base    | current | history1     | history2 |
|-----------|--------|---------------|---------|--------------|----------|
| Sodium    | ppm    | ASTM D5185(m) |         | <b>1166</b>  | ---      |
| Potassium | ppm    | ASTM D5185(m) |         | <b>34748</b> | ---      |

## SCALE POTENTIAL

|           | method     | limit/base    | current | history1     | history2 |
|-----------|------------|---------------|---------|--------------|----------|
| Calcium   | ppm        | ASTM D5185(m) | >100    | <b>&lt;1</b> | ---      |
| Magnesium | ppm        | ASTM D5185(m) | >40     | <b>0</b>     | ---      |
| Hardness  | mg/L CaCO3 | In-house*     | <75     | <b>2</b>     | ---      |

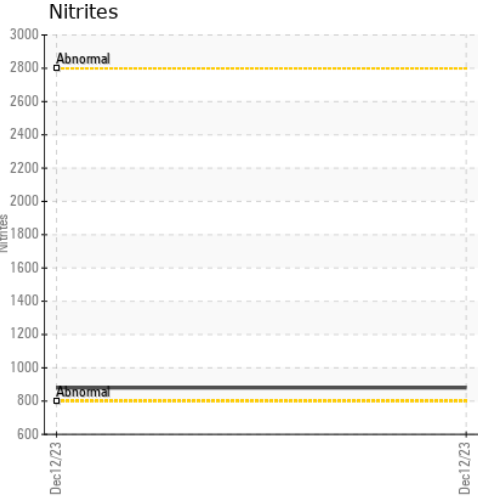
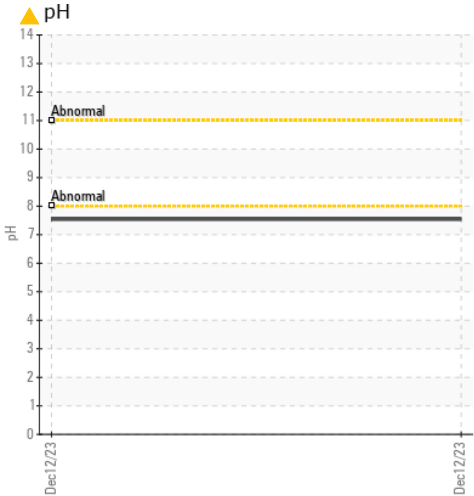
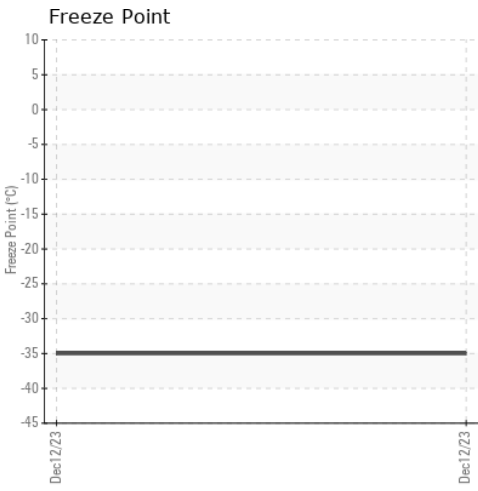
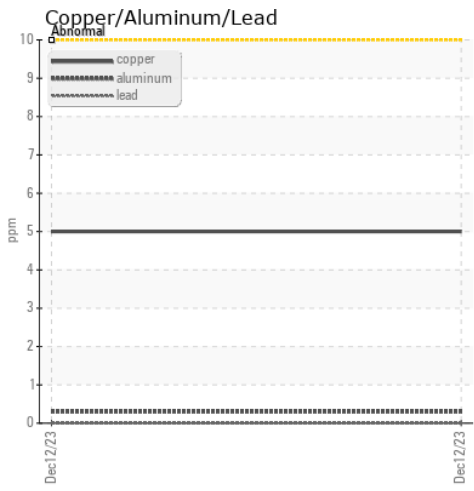
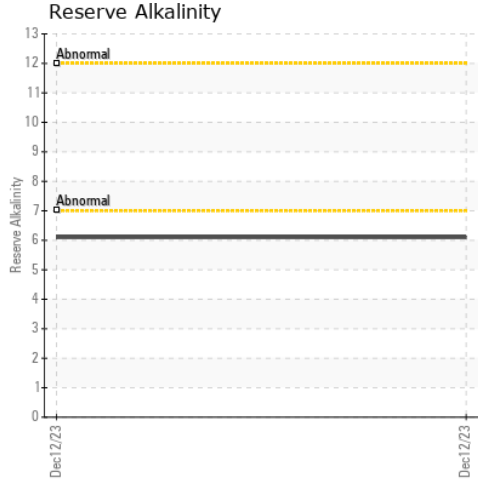
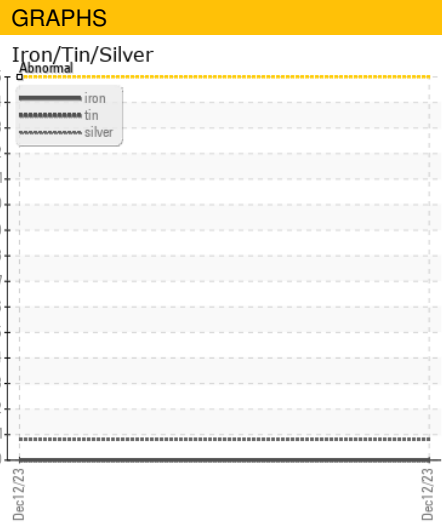
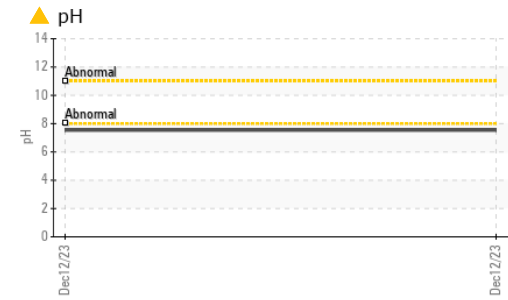
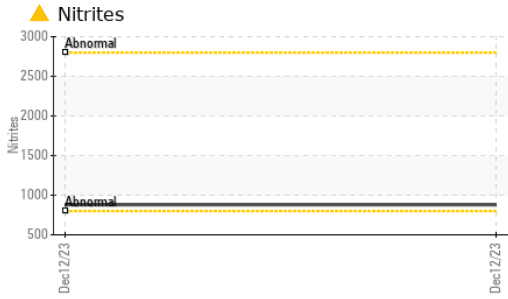
## VISUAL

|                    | method  | limit/base | current      | history1 | history2 |
|--------------------|---------|------------|--------------|----------|----------|
| Coolant Color      | Visual* |            | <b>Green</b> | ---      | ---      |
| Coolant Appearance | Visual* | Clear      | <b>Clear</b> | ---      | ---      |

|        |  |                                                                                       |          |          |
|--------|--|---------------------------------------------------------------------------------------|----------|----------|
| Color  |  |  | no image | no image |
| Bottom |  |  | no image | no image |



# COOLANT REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0851985 **Received** : 14 Dec 2023  
**Lab Number** : 02603345 **Diagnosed** : 18 Dec 2023  
**Unique Number** : 5696430 **Diagnostician** : Kevin Marson  
**Test Package** : COOL

**C.G. EQUIPMENT**  
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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.