VOLVO CONSTRUCTION EQUIPMENT MATRIS REPORT

| Machine model | SerialNo | | Operating Hours | | Reading Date |
|-------------------------|----------|------------------|-----------------|---------------------|--------------|
| A40G | 340469 | 9 4217.4 | | | 28/05/2019 |
| Company name | | Dealer | | Report Issuer | |
| volvo | | arnold machinery | | | |
| Contact name Technician | | Technician | | Primary Ap | plication |
| mike seifert CE Tech | | | Earth n | noving construction | |
| Site Workorder | | | Ground Co | ndition | |
| | | | | | |

MATRIS Reading, Summary / Recommendation

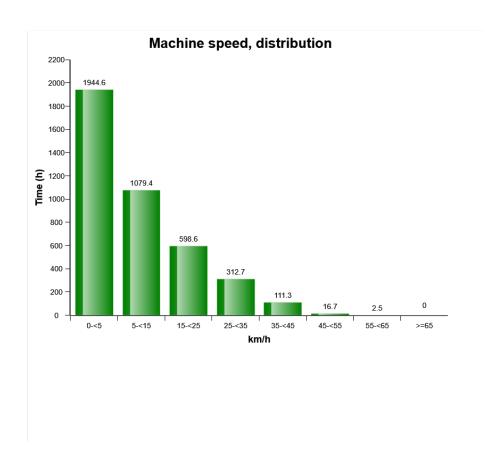


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| Main equipment | Туре | Equipment |
|----------------|------------------|--------------------|
| | Tyre size/class | Sold without tyres |
| | Body extensions | Not mounted |
| | Tail-gate | Not mounted |
| | Extra spillguard | Not mounted |
| | Wear plates | Not mounted |
| | Pattern | None |



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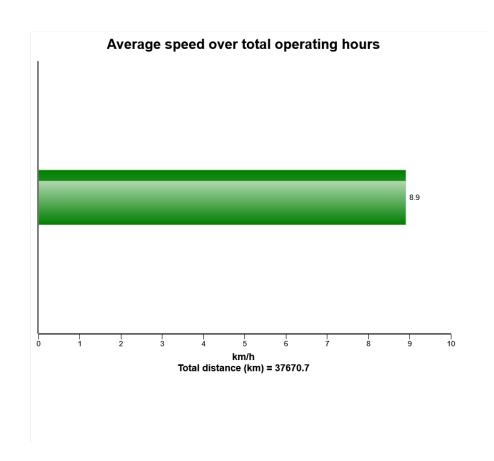


The presentation shows the time in hours in speed-intervals for the vehicle

Note that the interval 0-5 km/h includes machine not in motion. If the machine has been operated above 55 km/h there is a risk of engine over speed.



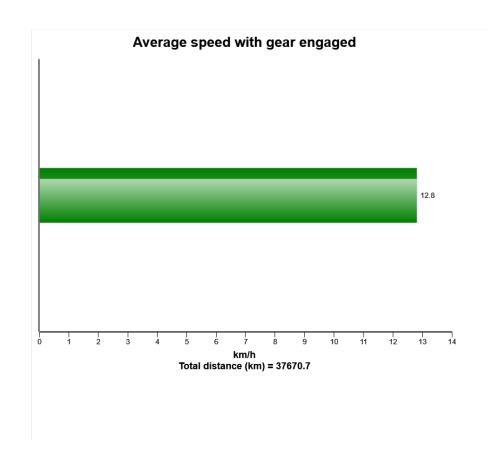
| Machine model | SerialNo | Operating Hours | Reading Date |
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| A40G | 340469 | 4217.4 | 28/05/2019 |



The diagram shows the machines average speed based on the total operating hours.



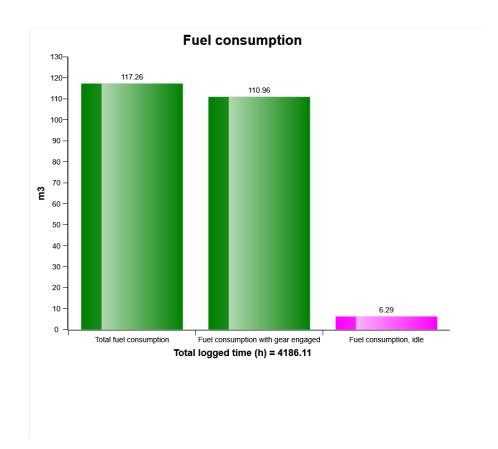
| Machine model | SerialNo | Operating Hours | Reading Date |
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The diagram shows the machines average speed based on the operating hours with gear engaged.



| Machine model | SerialNo | Operating Hours | Reading Date |
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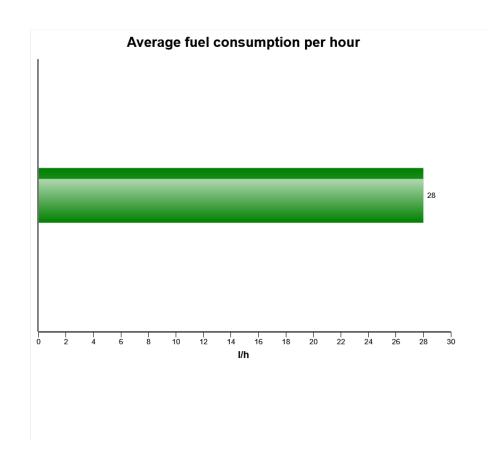


The diagram shows the total fuel consumption, fuel consumption with gear engaged and fuel consumption during idle.

High fuel consumption during idle can indicate that the machine is not fully utilized.



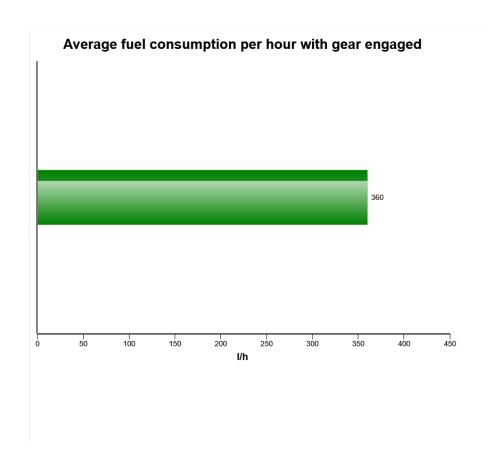
| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |



The diagram shows the average fuel consumption based on total operating hours.



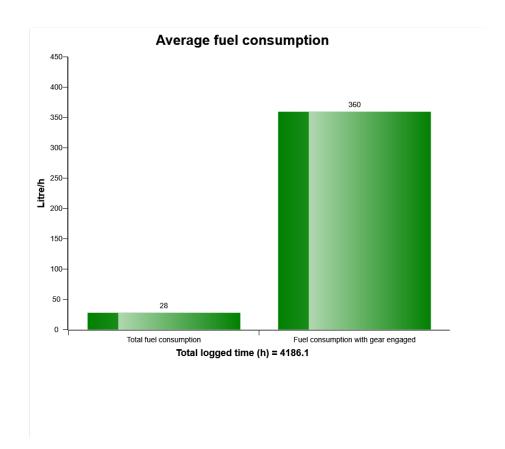
| Machine model | SerialNo | Operating Hours | Reading Date |
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The diagram shows the average fuel consumption based on the operating hours with gear engaged.



| Machine model | SerialNo | Operating Hours | Reading Date |
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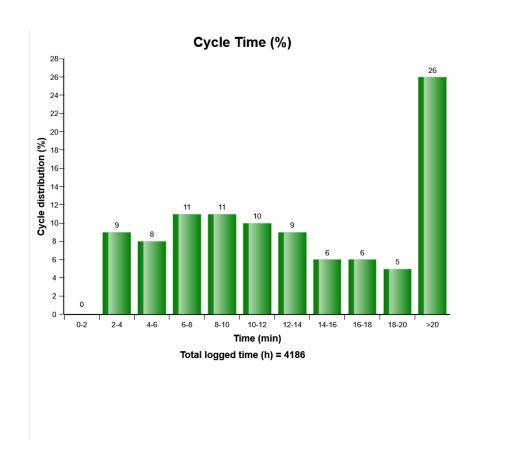


The diagram shows the total average fuel consumption versus average fuel consumption with gear engaged.

Big difference between the bars can indicate that the machine is not fully utilized, high idle lowers the total average fuel consumption.



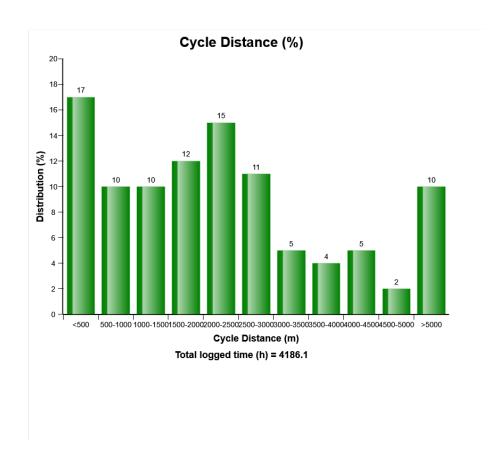
| Machine model | SerialNo | Operating Hours | Reading Date |
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The diagram shows the distribution of the working cycle time. The time between 2 valid cycle registrations is registered. Time starts from lifting the body.



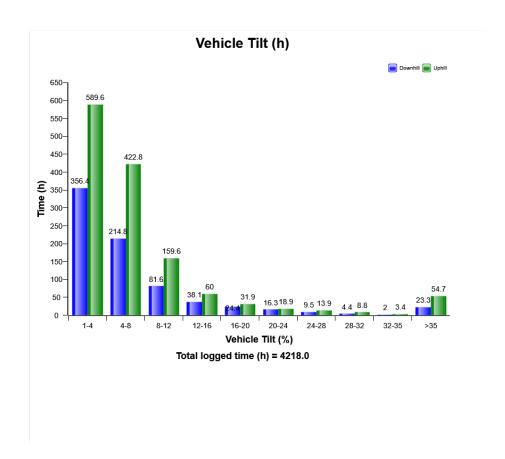
| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
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The diagram shows the distribution of the working cycle distance. The distance driven between 2 valid cycle registrations.



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| A40G | 340469 | 4217.4 | 28/05/2019 |

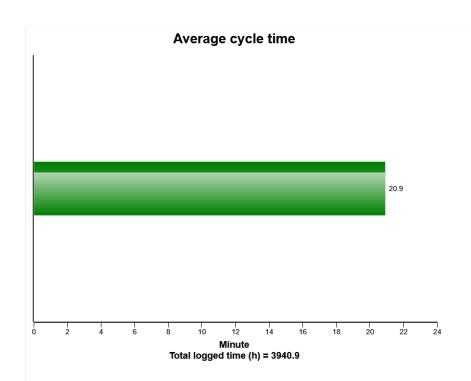


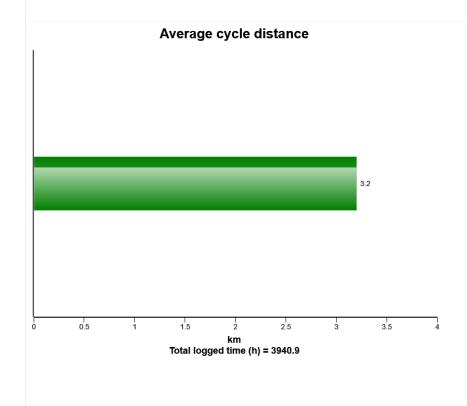
The diagram shows the distribution of the longitudinal tilt in percent (not degrees), the criteria to get registrations is that the vehicle speed exceeds 1 km/h (0,62mph) and that the engine is on.



 Machine model
 SerialNo
 Operating Hours
 Reading Date

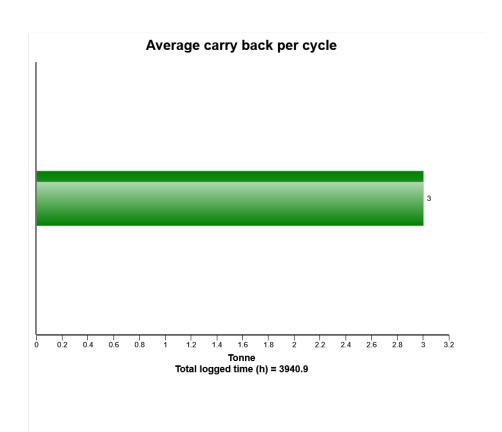
 A40G
 340469
 4217.4
 28/05/2019







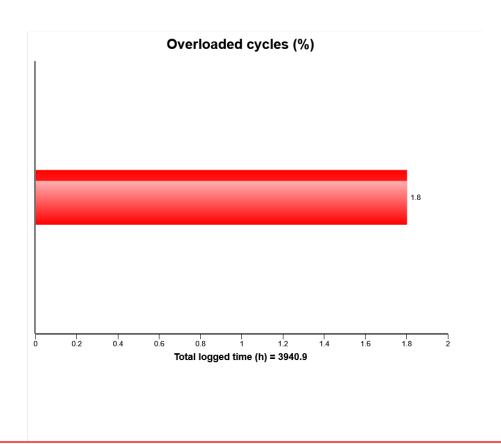
| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |



An error has occurred while processing HtmlTextBox 'htmlTextBox1': 'WordSection1' is an unexpected token. The expected token is '" or ". Line 1, position 18.



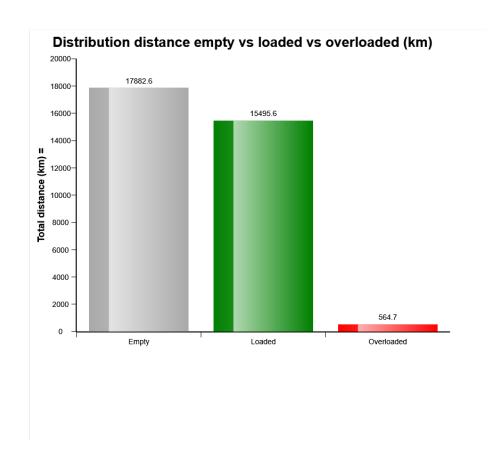
| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |



An error has occurred while processing HtmlTextBox 'htmlTextBox1': The ':' character, hexadecimal value 0x3A, cannot be included in a name. Line 1, position 656.



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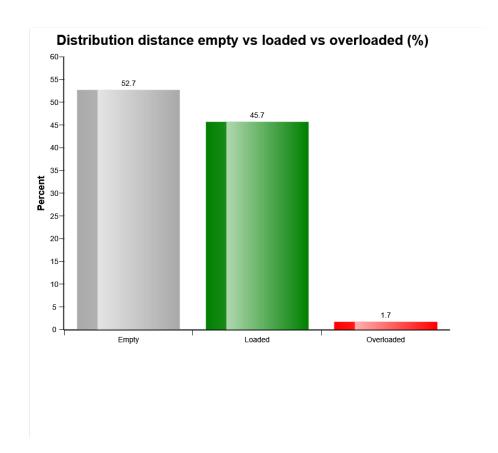


Much time operated with overload puts unnessesery stress to the machine which could lead to shorter machine life and higher repair and maintenance cost.

Much time operated empty could indicate that the machine has been operated a lot when not in production.



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|---------------|----------|-----------------|--------------|
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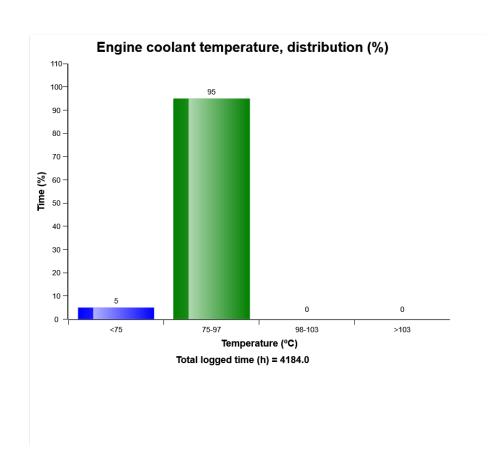


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Definition:

The graph shows the time distribution of the temperature, while engine running.

Explanation:

Y-axis: Time

X-axis: Temperature distribution in classes.

Blue bar = Warm-up phase.

During the engine warm-up phase, this temperature region is passed.

It is normal to have registrations in this region.



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
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Green bar = Normal working temperature. The Major part of the registrations shall be in this region.

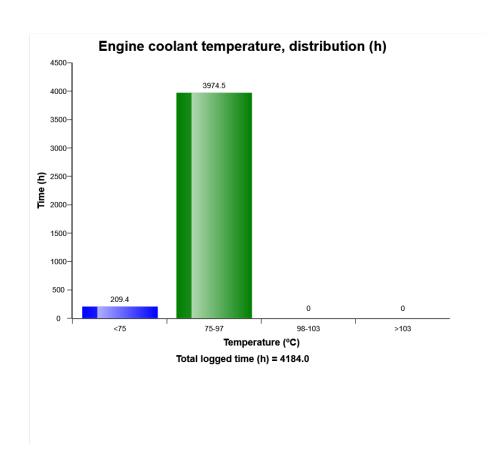
Yellow bar = High working temperature. It is normal to have some registrations in this region.

Red bar = Alarm.

Registrations in this region is not normal, running in this region may cause severe damage.



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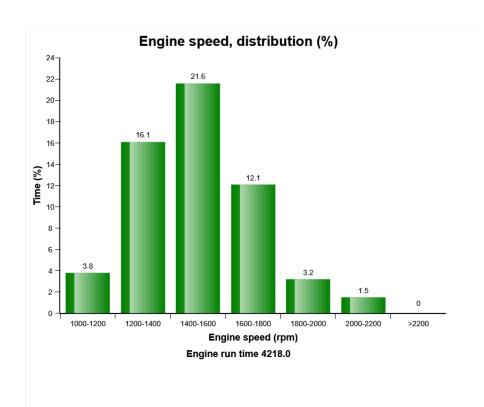
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Red bar = Alarm.

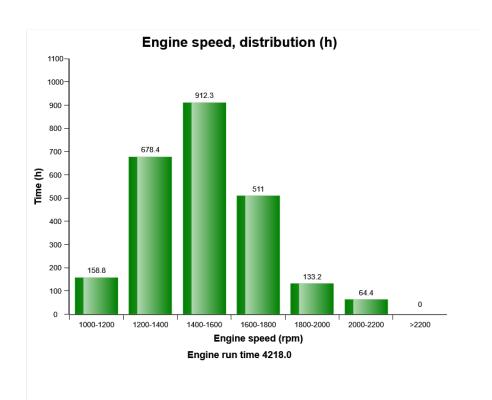
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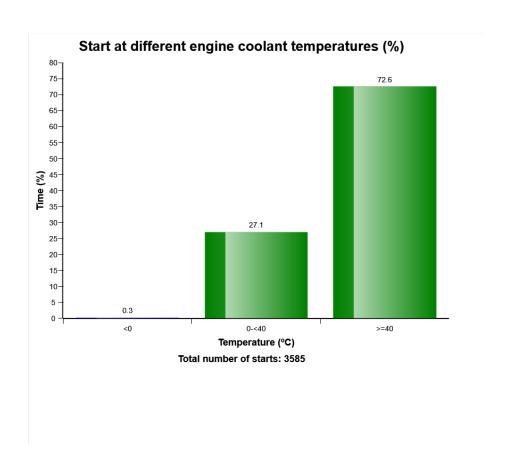
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|---------------|----------|-----------------|--------------|
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| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |



Definition:

The graph shows the distribution of engine coolant temperature, at the starting moment.

Explanation:

Y-axis: Number of engine starts

X-axis: Engine coolant temperature.

A great proportion of engine wear is due to cold starts. Try to avoid extremely cold starts. Try using an electric coolant heater.



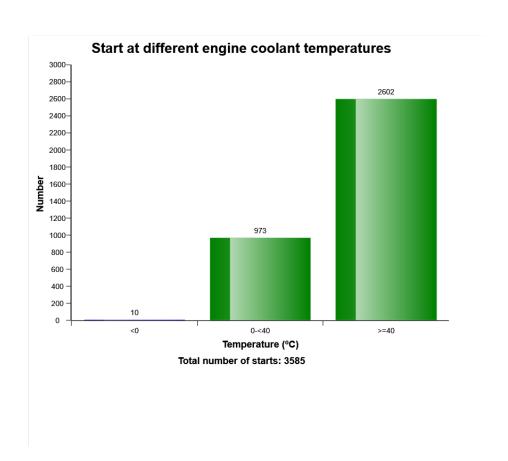
| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

Under the graph the total number of engine starts is displayed.

Also see " Number of starts / hour" to get a complete picture of engine starting.



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|---------------|----------|-----------------|--------------|
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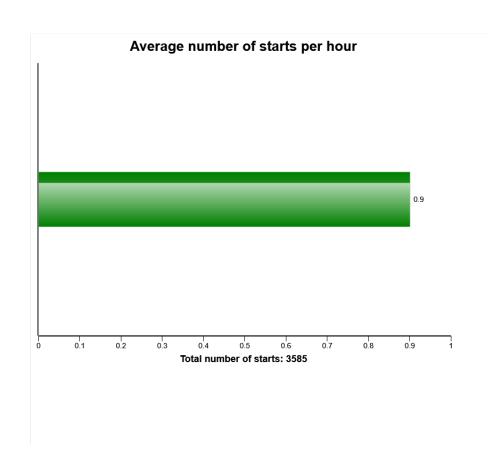
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|---------------|----------|-----------------|--------------|
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Definition:

The graph describes the average number of engine starts per engine running hour.

Explanation:

X-axis: Number of average starts per hour.

The actual time used for calculation, is time with engine on

If the fuel consumption is high one reason may be that the engine is not turned off often enough, perhaps machine is left idling for long periods. Check " Machine utilization".

The value can vary a lot depending on in which application the machine is used.

To see at which different temperatures engine is started see" Start at different engine temperatures."



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|---------------|----------|-----------------|--------------|
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Green bar = Number of average starts per hour



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

High engine coolant temperature Total number of occurences = 0

| | Op hours | Year | Month | Day | Hour | Minute | Duration (sec) |
|---|----------|------|-------|-----|------|--------|----------------|
| A | 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| В | 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| С | 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| D | 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| E | 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| F | 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| G | 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| Н | 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| I | 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| J | 0 | 2000 | 0 | 0 | 0 | 0 | 0 |

Definition

This type of table shows the latest occasions when a specific event has occurred. When a specified criteria is fulfilled a registration is made. Each table row corresponds to one occasion. Operating hours is displayed in the first column, followed by year, month, day, hour and minute to show when an event has occurred.

The rows are not ordered chronological (The latest event may be in the middle).

Only one event per minute is registered.

Over the table the total number of events is displayed.

Duration:

The duration of each event is shown after the timestamp of the event.

The duration is counted as long as the criteria is fulfilled.

Extreme value:

The extreme value column displays the most extreme value during the event.



Extreme (° C) 0 0 0 0 0 0 0 0 0 0 0 0

0



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

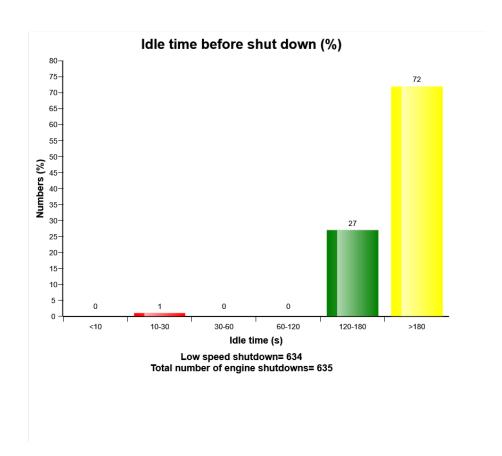
Criteria:

The criteria to get an registration, is that the alarm signal for high engine coolant temperature is active and that the diesel engine is running.





| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |



Definition:

This graph shows the distribution of delayed time at low idle speed until the engine is turned off.

The delayed time distribution for each bar is shown on top of its column in percentage.

The sum of bars is 100%.



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

High engine oil temperature Total number of occurences = 0

| | Op hours | Year | Month | Day | Hour | Minute | Duration (sec) |
|---|----------|------|-------|-----|------|--------|----------------|
| A | 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| В | 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| С | 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| D | 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| E | 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| F | 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| G | 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| Н | 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| I | 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| J | 0 | 2000 | 0 | 0 | 0 | 0 | 0 |

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Duration:

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Extreme value:

The extreme value column displays the most extreme value during the event.



Extreme (° C) 0 0 0 0 0 0 0 0 0 0 0 0

0



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
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Criteria:

The criteria to get an registration, is that the alarm signal for high engine oil temperature is active and that the diesel engine is running.





| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

Starter overheating Total number of occurences = 0

| Op hours | Year | Month | Day | Hour | Minute |
|----------|------|-------|-----|------|--------|
| 0 | 2000 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 |

Definition:

The starter can be damaged if it is overheated.

Alarm is registered if the starter is used continuously more than 40 seconds and if it is less than five



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

minutes since the latest alarm.

Explanation:

X-axis: Number of times that the starter alarm has been activated.



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
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Low Air filter pressure Total number of occurences = 0

| Op hours | Year | Month | Day | Hour | Minute | Duration (sec) |
|----------|------|-------|-----|------|--------|----------------|
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |

Definition :

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| Machine model | SerialNo | Operating Hours | Reading Date |
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event has occurred.

The rows are not ordered chronological (The latest event may be in the middle).

Only one event per minute is registered.

Over the table the total number of events is displayed.

Duration:

The duration of each event is shown after the timestamp of the event.

The duration is counted as long as the criteria is fulfilled.

Criteria:

The criteria to get an registration, is that the alarm signal for air filter clogged is active, and that the diesel engine is running.



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

Regeneration ignored Total number of ignored regenerations 0

| | Op hours | Year | Month | Day | Hour | Minute |
|---|----------|------|-------|-----|------|--------|
| * | 0 | 2000 | 0 | 0 | 0 | 0 |
| * | 0 | 2000 | 0 | 0 | 0 | 0 |
| * | 0 | 2000 | 0 | 0 | 0 | 0 |
| * | 0 | 2000 | 0 | 0 | 0 | 0 |
| * | 0 | 2000 | 0 | 0 | 0 | 0 |
| * | 0 | 2000 | 0 | 0 | 0 | 0 |
| * | 0 | 2000 | 0 | 0 | 0 | 0 |
| * | 0 | 2000 | 0 | 0 | 0 | 0 |
| * | 0 | 2000 | 0 | 0 | 0 | 0 |
| * | 0 | 2000 | 0 | 0 | 0 | 0 |
| * | 0 | 2000 | 0 | 0 | 0 | 0 |
| * | 0 | 2000 | 0 | 0 | 0 | 0 |
| * | 0 | 2000 | 0 | 0 | 0 | 0 |
| * | 0 | 2000 | 0 | 0 | 0 | 0 |
| * | 0 | 2000 | 0 | 0 | 0 | 0 |
| * | 0 | 2000 | 0 | 0 | 0 | 0 |
| * | 0 | 2000 | 0 | 0 | 0 | 0 |
| * | 0 | 2000 | 0 | 0 | 0 | 0 |
| * | 0 | 2000 | 0 | 0 | 0 | 0 |
| * | 0 | 2000 | 0 | 0 | 0 | 0 |



Duration (min)

Volvo Construction Equipment Customer Support



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

Regeneration aborted Total number of occurences = 0

| Op hours | Year | Month | Day | Hour | Minute | Reason |
|----------|------|-------|-----|------|--------|--------|
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

Regeneration duration Total number of occurences = 10

| Op hours | Year | Month | Day | Hour | Minute | Duration (min) |
|----------|------|-------|-----|------|--------|-------------------|
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 496 | 2016 | 1 | 6 | 12 | 43 | 44 |
| 703 | 2016 | 2 | 19 | 15 | 47 | 46 |
| 848 | 2016 | 3 | 23 | 14 | 28 | 42 |
| 1349 | 2016 | 7 | 27 | 13 | 51 | 47 |
| 1852 | 2017 | 6 | 6 | 21 | 20 | 37 |
| 1853 | 2017 | 6 | 6 | 22 | 8 | 30 |
| 2354 | 2018 | 1 | 20 | 16 | 10 | 51 |
| 2905 | 2018 | 5 | 1 | 9 | 9 | 62 |
| 3406 | 2018 | 7 | 28 | 13 | 37 | 50 |
| 3907 | 2018 | 10 | 17 | 12 | 57 | 53 |



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

Water level warning in water separator Total number of occurences = 7

| Op hours | Year | Month | Day | Hour | Minute | Duration (min) |
|----------|------|-------|-----|------|--------|-------------------|
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 |
| 572 | 2016 | 1 | 16 | 5 | 13 | 0 |
| 1080 | 2016 | 5 | 26 | 10 | 22 | 0 |
| 1302 | 2016 | 7 | 20 | 7 | 21 | 0 |
| 2913 | 2018 | 5 | 1 | 18 | 2 | 0 |
| 3191 | 2018 | 6 | 27 | 8 | 5 | 0 |
| 3313 | 2018 | 7 | 16 | 7 | 24 | 0 |
| 3960 | 2018 | 10 | 29 | 18 | 8 | 0 |



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

High voltage Total number of occurences = 0

| Op hours | Year | Month | Day | Hour | Minute | Duration (sec) | Extreme value |
|----------|------|-------|-----|------|--------|----------------|---------------|
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |

Definition:

This type of table shows the latest occasions when a specific event has occurred. When a specified criteria is fulfilled a registration is made. Each table row corresponds to one occasion. Operating hours is displayed in the first column, followed by year, month , day , hour and minute to show when



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

an event has occurred.

The rows are not ordered chronological (The latest event may be in the middle).

Only one event per minute is registered.

Over the table the total number of events is displayed

Duration:

The duration of each event is shown after the timestamp of the event.

The duration is counted as long as the criteria is fulfilled.

Extreme value :

The extreme value column displays the most extreme value during the event.

Criteria:

Logging is performed when, Alarm high system voltage , is active.



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

Low voltage Total number of occurences = 0

| Op hours | Year | Month | Day | Hour | Minute | Duration (sec) | Extreme value |
|----------|------|-------|-----|------|--------|----------------|---------------|
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |

Definition:

This type of table shows the latest occasions when a specific event has occurred. When a specified criteria is fulfilled a registration is made. Each table row corresponds to one occasion. Operating hours is displayed in the first column, followed by year, month , day , hour and minute to show when



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

an event has occurred.

The rows are not ordered chronological (The latest event may be in the middle).

Only one event per minute is registered.

Over the table the total number of events is displayed

Duration:

The duration of each event is shown after the timestamp of the event.

The duration is counted as long as the criteria is fulfilled.

Extreme value :

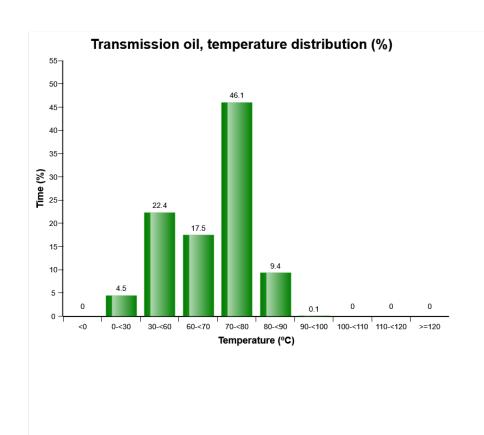
The extreme value column displays the most extreme value during the event.

Criteria:

Logging is performed when, Alarm low system voltage, is active.



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |



The diagram shows the transmission oil temperature in various temperature ranges. The time is displayed in the following ten temperature ranges:

<0°C Temperatures below 0°C

0 - <30°C Temperatures from 0°C until 30°C

30-<60°C Temperatures from 30°C until 60°C

60-<70°C Temperatures from 60°C until 70°C

70-<80°C Temperatures from 70°C until 80°C

 $80\text{-}\!\!<\!\!90^{\circ}\text{C}$ Temperatures from 80°C until 90°C

90-<100°C Temperatures from 90°C until 100°C



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

100-<110°C Temperatures from 100°C until 110°C

110-<120°C Temperatures from 110°C until 120°C

≥120°C Temperatures over 120°C

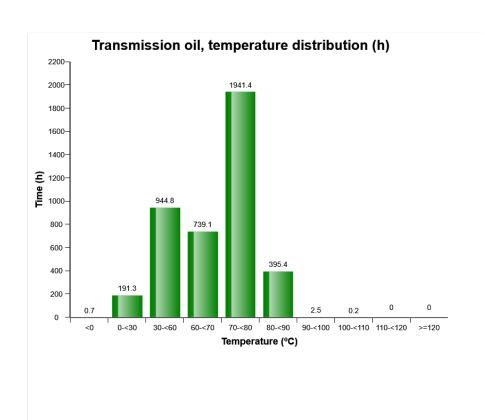
The bar that describes temperatures from 110°C until 120°C is yellow and means that the oil has began to be overheated. Driver has been given orange central warning

The bar that describes >120°C is red and means that the oil has been overheated. Driver has been given red central warning.

Oil temperatures exceeding 110°C must be avoided since the properties of the oil are degraded



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |



The diagram shows the transmission oil temperature in various temperature ranges. The time is displayed in the following ten temperature ranges:

<0°C Temperatures below 0°C

0 - <30°C Temperatures from 0°C until 30°C

30-<60°C Temperatures from 30°C until 60°C

60-<70°C Temperatures from 60°C until 70°C

70-<80°C Temperatures from 70°C until 80°C

80-<90°C Temperatures from 80°C until 90°C

90-<100°C Temperatures from 90°C until 100°C



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

100-<110°C Temperatures from 100°C until 110°C

110-<120°C Temperatures from 110°C until 120°C

≥120°C Temperatures over 120°C

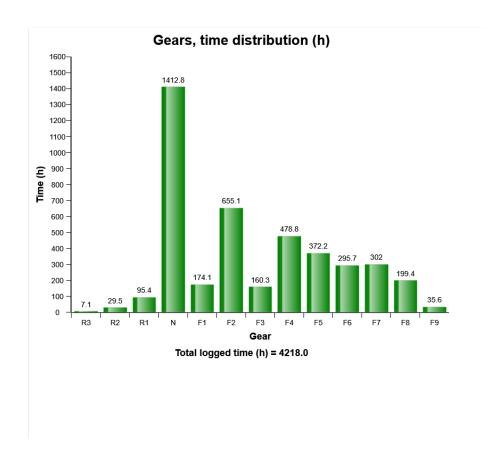
The bar that describes temperatures from 110° C until 120°C is yellow and means that the oil has began to be overheated. Driver has been given orange central warning

The bar that describes >120°C is red and means that the oil has been overheated. Driver has been given red central warning.

Oil temperatures exceeding 110°C must be avoided since the properties of the oil are degraded



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

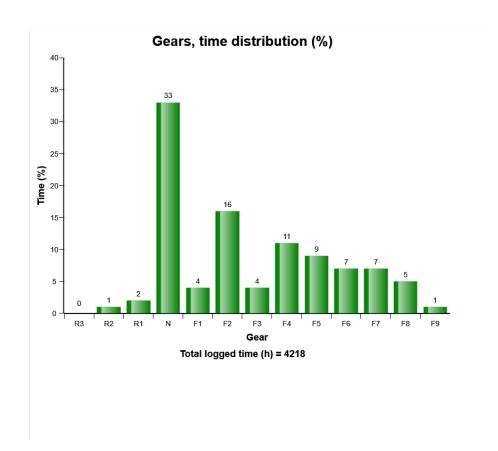


The diagram shows the time for each gear. Each bar represents a gear.

How the time is distributed between the gears depends on the operating conditions.



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |



The diagram shows the time for each gear. Each bar represents a gear.

How the time is distributed between the gears depends on the operating conditions.



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

Transmission oil pressure low Total number of occurences = 6

| Op hours | Year | Month | Day | Hour | Minute | Duration (sec) | Extreme (bar) |
|----------|------|-------|-----|------|--------|----------------|------------------|
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 283 | 2015 | 7 | 14 | 17 | 53 | 30 | 28.9 |
| 283 | 2015 | 7 | 14 | 17 | 51 | 90 | 18.7 |
| 284 | 2015 | 7 | 14 | 19 | 9 | 0 | 125.6 |
| 1566 | 2016 | 10 | 7 | 8 | 23 | 0 | 223.1 |
| 2008 | 2017 | 7 | 14 | 2 | 6 | 80 | 36.6 |
| 2999 | 2018 | 5 | 10 | 12 | 41 | 0 | 140.3 |

Definition :

This type of table shows the latest occasions when a specific event has occurred. When a specified criteria is fulfilled a registration is made. Each table row corresponds to one occasion. Operating hours is displayed in the first column, followed by year, month, day, hour and minute to show when an



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

event has occurred.

The rows are not ordered chronological (The latest event may be in the middle).

Only one event per minute is registered.

Over the table the total number of events is displayed.

Duration:

The duration of each event is shown after the timestamp of the event.

The duration is counted as long as the criteria is fulfilled.

Extreme value:

The extreme value column displays the most extreme value during the event.

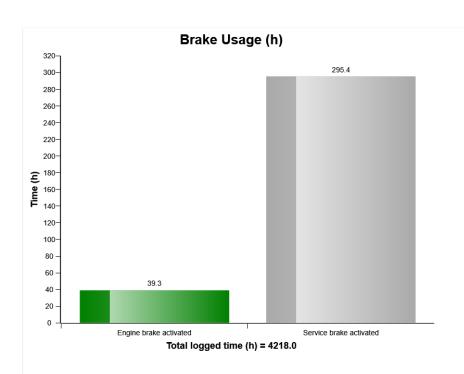
Criteria:

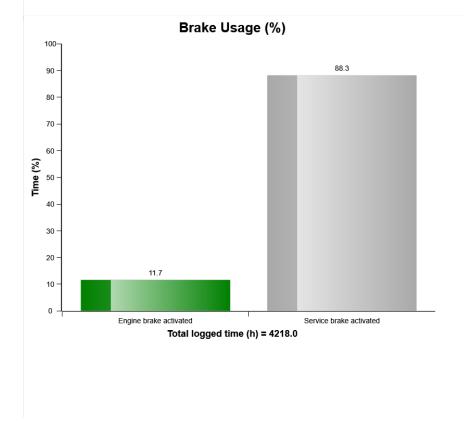
In order for an occurrence of low transmission oil pressure to be recorded in a data point and the count to increment by 1, the transmission oil pressure state must change from "normal" or "error" to "low." The event of low transmission oil pressure will end when the status changes from "low" back to "normal" or "error."



 Machine model
 SerialNo
 Operating Hours
 Reading Date

 A40G
 340469
 4217.4
 28/05/2019







| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

Low Brake Servo Pressure Total number of occurences = 33

| | Op hours | Year | Month | Day | Hour | Minute | Duration (sec) |
|---|----------|------|-------|-----|------|--------|----------------|
| D | 1323 | 2016 | 7 | 21 | 17 | 5 | 0 |
| E | 1467 | 2016 | 9 | 12 | 11 | 50 | 9 |
| F | 1468 | 2016 | 9 | 12 | 15 | 53 | 0 |
| G | 1565 | 2016 | 10 | 7 | 7 | 15 | 9 |
| Н | 1823 | 2017 | 5 | 30 | 19 | 35 | 0 |
| I | 2248 | 2018 | 1 | 2 | 6 | 47 | 0 |
| J | 2432 | 2018 | 2 | 21 | 9 | 43 | 0 |
| A | 2433 | 2018 | 2 | 26 | 7 | 30 | 0 |
| В | 3840 | 2018 | 10 | 8 | 7 | 24 | 0 |
| С | 4215 | 2019 | 3 | 21 | 3 | 36 | 10 |

Definition :

This type of table shows the latest occasions when a specific event has occurred. When a specified criteria is fulfilled a registration is made. Each table row corresponds to one occasion. Operating hours is displayed in the first column, followed by year, month, day, hour and minute to show when an event has occurred.

The rows are not ordered chronological (The latest event may be in the middle).

Only one event per minute is registered.

Over the table the total number of events is displayed

Duration:

The duration of each event is shown after the timestamp of the event.

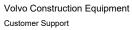
The duration is counted as long as the criteria is fulfilled.

Extreme value:

The extreme value column displays the most extreme value during the event.



Extreme (bar)





| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

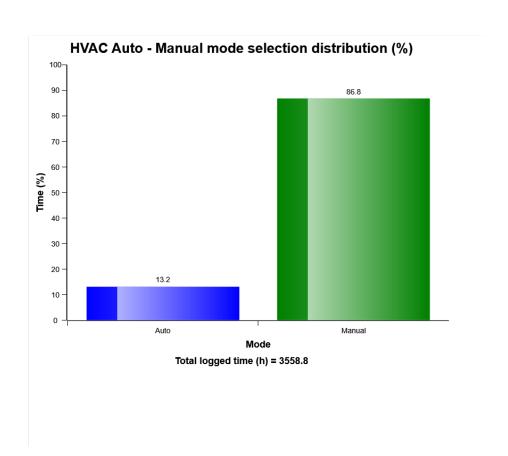
Criteria:

In order for an occurrence of low brake servo pressure to be recorded in a data point and the count to increment by 1, the low brake servo pressure state must be alarm. Gear not in Neutral and engine must be on.





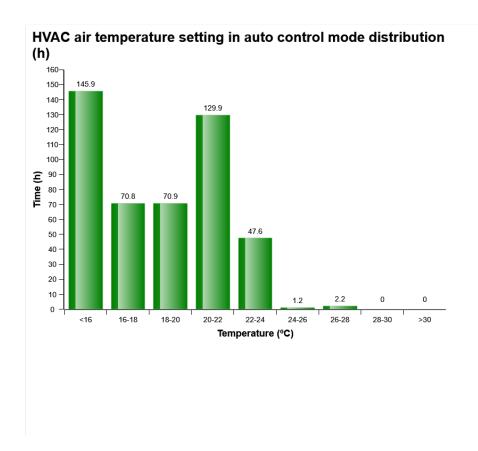
| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |



The diagram describes auto-manual mode sele ction distribution of HVAC system in machine while it Works. The share of each mode compared to Total time of HVAC operation is displayed.



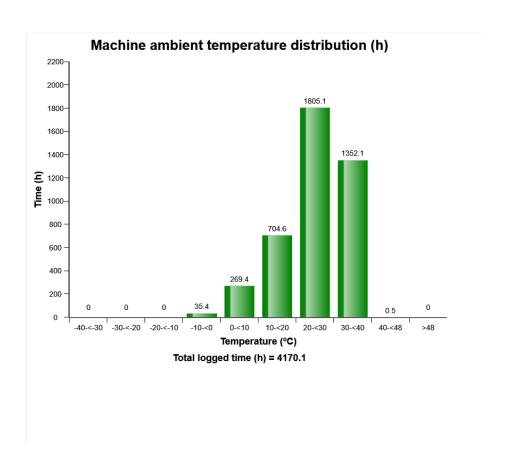
| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |



The diagram describes air temperature setting distribution for HVAC auto control mode established by operator in Cabin



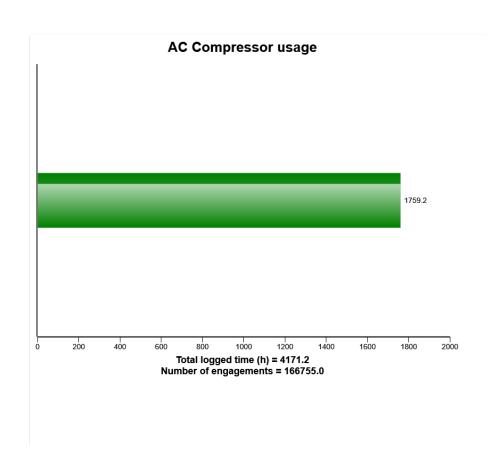
| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |



The diagram describes ambient temperature distribution of the machine while machine operates.



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |



The graph shows the total time of AC compressor engagement.

Explanation:

Green bar: Total time in hours, AC compressor has been engaged.

Under the graph the total engine running time (in hours) is displayed.

Total number of AC compressor activations is also displayed.

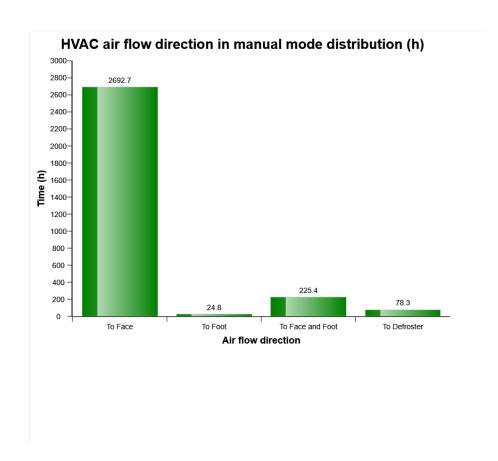


| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

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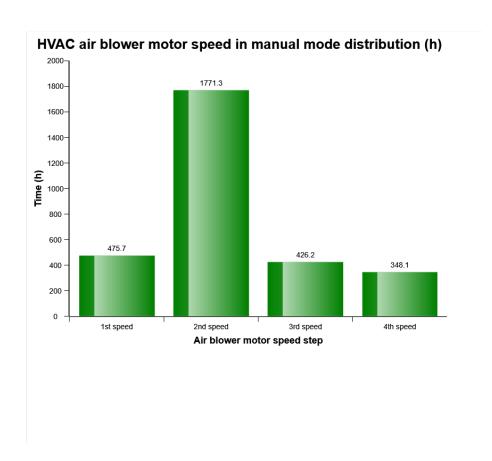
| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |



The diagram describes air flow direction distribution for HVAC manual control mode established by operator in Cabin.



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |



The diagram describes air blower motor speed distribution for HVAC manual control mode established by operator in Cabin.



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

AC High Pressure Total number of occurences = 0

| Op hours | Year | Month | Day | Hour | Minute | Duration (sec) | Extreme (° C) |
|----------|------|-------|-----|------|--------|----------------|---------------|
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |

Definition:

This type of table shows the latest occasions when a specific event has occurred. When a specified criteria is fulfilled a registration is made. Each table row corresponds to one occasion. Operating hours is displayed in the first column, followed by year, month , day , hour and minute to show when



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

an event has occurred.

The rows are not ordered chronological (The latest event may be in the middle).

Only one event per minute is registered.

Over the table the total number of events is displayed

Duration:

The duration of each event is shown after the timestamp of the event.

The duration is counted as long as the criteria is fulfilled.

Extreme value :

The extreme value column displays the most extreme value during the event.

Criteria:

Logging is performed when, High AC Pressure signal is active. Ambient temp is viewed.



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

AC Boiling Protection Number of engagements = 0

| Op hours | Year | Month | Day | Hour | Minute | Duration (sec) | Extreme (°C) |
|----------|------|-------|-----|------|--------|----------------|--------------|
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 |

Definition:

This type of table shows the latest occasions when a specific event has occurred. When a specified criteria is fulfilled a registration is made. Each table row corresponds to one occasion. Operating hours is displayed in the first column, followed by year, month , day , hour and minute to show when



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

an event has occurred.

The rows are not ordered chronological (The latest event may be in the middle).

Only one event per minute is registered.

Over the table the total number of events is displayed

Duration:

The duration of each event is shown after the timestamp of the event.

The duration is counted as long as the criteria is fulfilled.

Extreme value :

The extreme value column displays the most extreme value during the event.

Criteria:

Logging is performed when, Boiling protection signal is active. Ambient temp is viewed.



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

AC System Cut Out Pressure Total number of occurences = 50

| Op hours | Year | Month | Day | Hour | Minute | Duration (sec) | Extreme (°C) |
|----------|------|-------|-----|------|--------|----------------|--------------|
| 4199 | 2018 | 11 | 29 | 11 | 31 | 1931 | 16 |
| 4200 | 2018 | 11 | 29 | 12 | 28 | 9292 | 18 |
| 4202 | 2018 | 11 | 29 | 15 | 12 | 5392 | 20 |
| 4204 | 2018 | 11 | 30 | 6 | 44 | 8244 | 20 |
| 4206 | 2018 | 11 | 30 | 9 | 11 | -60838 | 16 |
| 4207 | 2018 | 11 | 30 | 10 | 30 | 6009 | 23 |
| 4209 | 2018 | 11 | 30 | 12 | 29 | 1687 | 26 |
| 4210 | 2018 | 11 | 30 | 13 | 0 | 7403 | 29 |
| 4212 | 2018 | 11 | 30 | 15 | 12 | 7288 | 27 |
| 4214 | 2018 | 12 | 2 | 16 | 43 | 1448 | 28 |
| 4214 | 2018 | 12 | 2 | 15 | 37 | 95 | 25 |
| 4214 | 2002 | 10 | 25 | 21 | 41 | 126 | 25 |
| 4214 | 2018 | 12 | 13 | 14 | 18 | 139 | 23 |
| 4214 | 2018 | 12 | 13 | 12 | 22 | 85 | 22 |
| 4214 | 2018 | 12 | 10 | 7 | 55 | 98 | 23 |
| 4214 | 2018 | 12 | 3 | 14 | 2 | 5 | 25 |
| 4214 | 2018 | 12 | 3 | 13 | 59 | 4 | 25 |
| 4214 | 2018 | 12 | 3 | 13 | 56 | 9 | 23 |
| 4214 | 2002 | 10 | 31 | 19 | 36 | 1911 | 19 |
| 4215 | 2019 | 3 | 7 | 1 | 59 | 123 | 13 |

Definition:

This type of table shows the latest occasions when a specific event has occurred. When a specified criteria is fulfilled a registration is made. Each table row corresponds to one occasion. Operating hours is displayed in the first column, followed by year, month , day , hour and minute to show when



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

an event has occurred.

The rows are not ordered chronological (The latest event may be in the middle).

Only one event per minute is registered.

Over the table the total number of events is displayed

Duration:

The duration of each event is shown after the timestamp of the event.

The duration is counted as long as the criteria is fulfilled.

Extreme value :

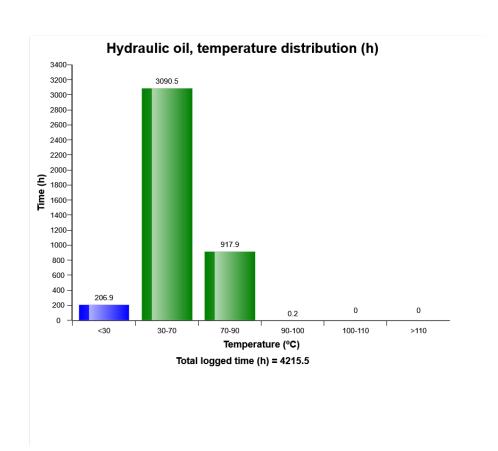
The extreme value column displays the most extreme value during the event.

Criteria:

Logging is performed when, AC cut out pressure signal is active. Ambient temp is viewed.



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |



The graph shows the time distribution of the temperature, while engine running.

Explanation:

Y-axis: Time

X-axis: Temperature distribution in classes.

Blue bar = Warm-up phase.

During the engine warm-up phase, this temperature region is passed.

It is normal to have registrations in this region.



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |

Green bar = Normal working temperature. The Major part of the registrations shall be in this region.

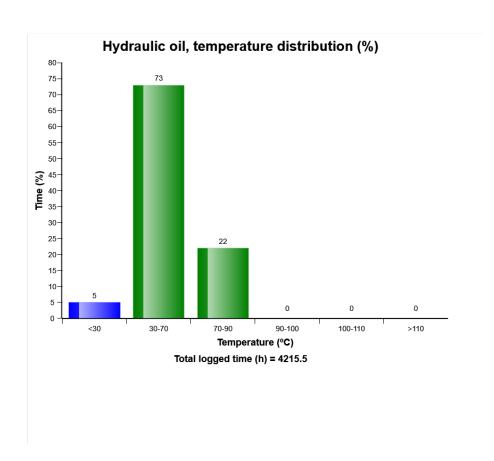
Yellow bar = High working temperature. It is normal to have some registrations in this region.

Red bar = Alarm.

Registrations in this region is not normal, running in this region may cause severe damage.



| Machine model | SerialNo | Operating Hours | Reading Date |
|---------------|----------|-----------------|--------------|
| A40G | 340469 | 4217.4 | 28/05/2019 |



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