

# VOLVO CONSTRUCTION EQUIPMENT MATRIS REPORT

Machine model <b>A40G</b>	SerialNo <b>341140</b>	Operating Hours <b>3804.8</b>	Reading Date <b>30/05/2019</b>
Company name <b>volvo</b>	Dealer <b>arnold machinery</b>	Report Issuer	
Contact name <b>mike seifert</b>	Technician <b>CE Tech</b>	Primary Application <b>Earth moving construction</b>	
Site	Workorder	Ground Condition	

MATRIS Reading, Summary / Recommendation

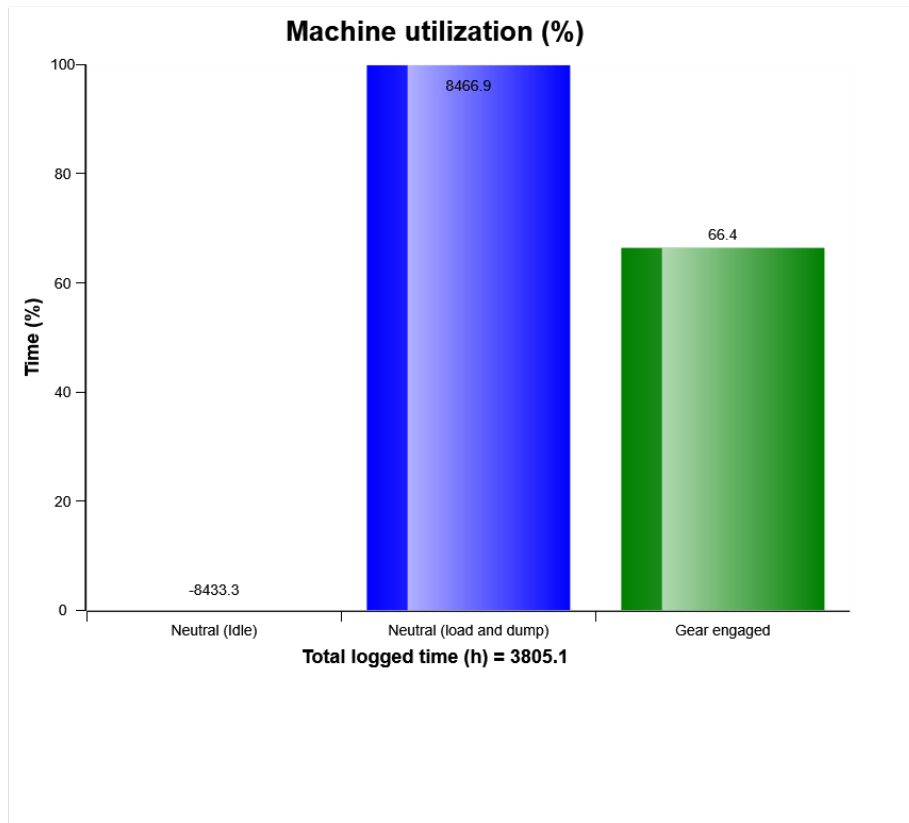


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Main equipment	Type	Equipment
	Tyre size/class	Sold without tyres
	Body extensions	Not mounted
	Tail-gate	Not mounted
	Extra spillguard	Not mounted
	Wear plates	Not mounted
	Pattern	None



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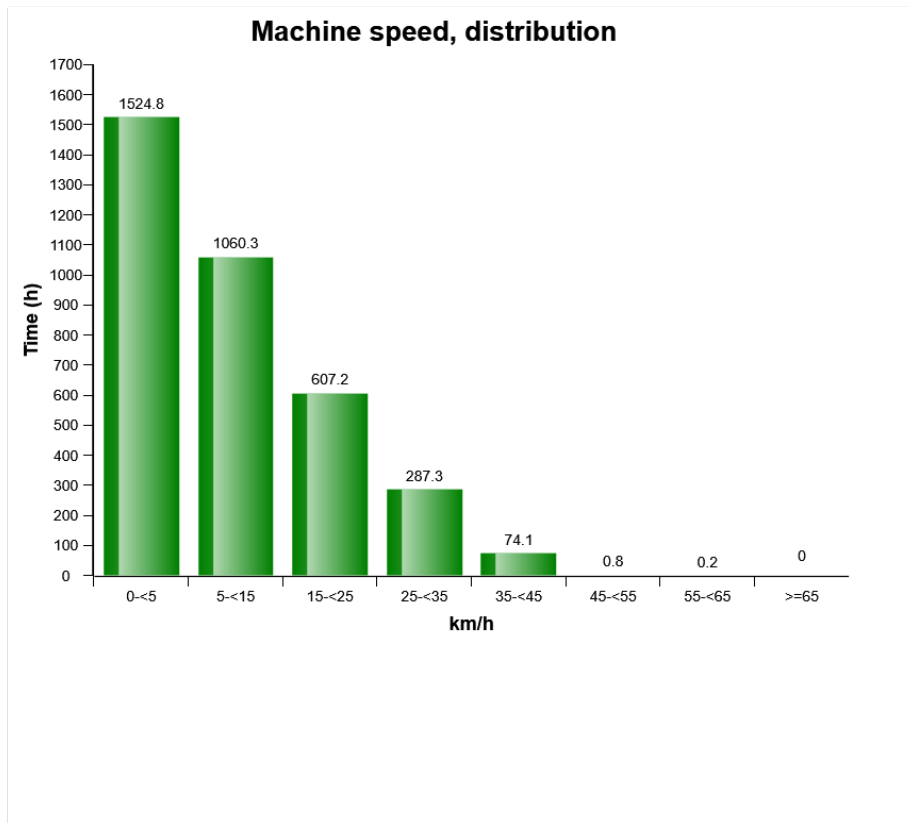
The diagram shows a simplified presentation of the machines utilization based on the relation between time in gear and time in neutral. The "Gear engaged " includes both forward and reverse gears.

This presentation of the machines utilization can only be seen as a guideline value since a full calculation of the machines utilization is more advanced. E.g. "Neutral" includes time for loading and dumping which should be seen as operating time.

High percentage of neutral time may indicate that the machine is underused due to e.g. under dimensioned loading tool or oversized hauler fleet



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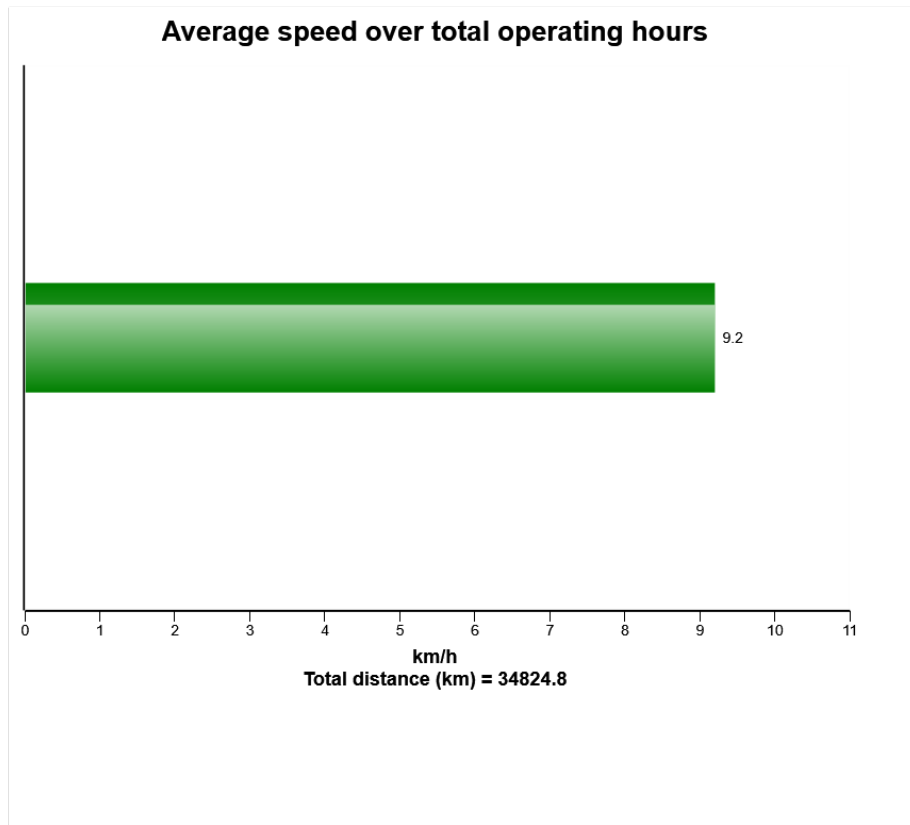


The presentation shows the time in hours in speed-intervals for the vehicle

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.



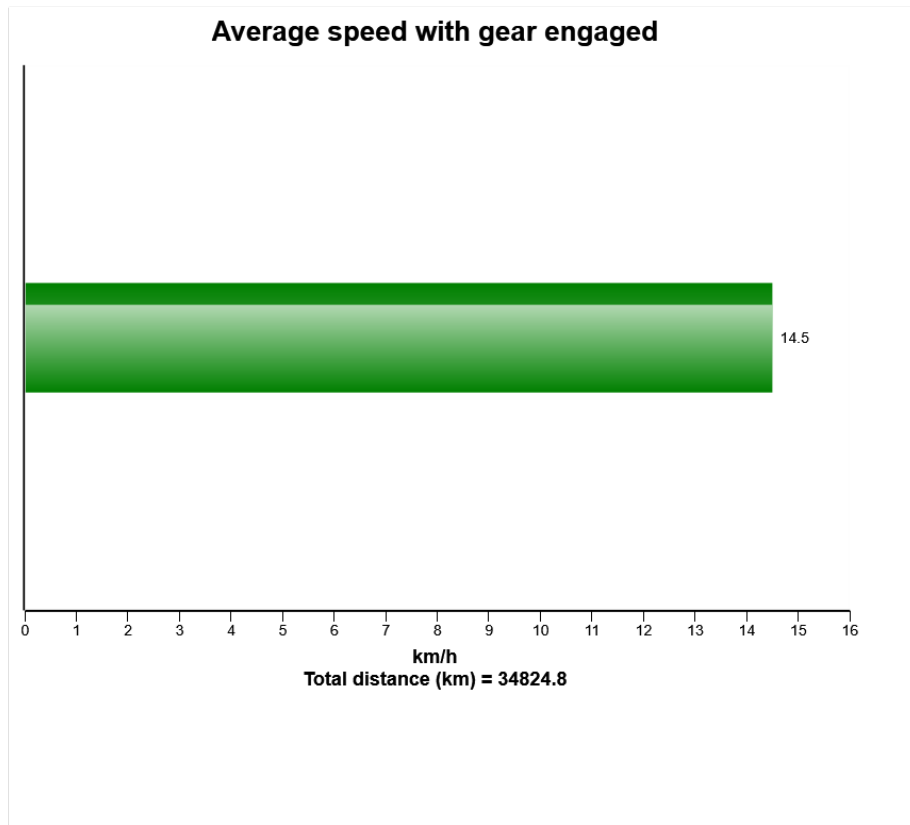
Machine model	SerialNo	Operating Hours	Reading Date
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The diagram shows the machines average speed based on the total operating hours.



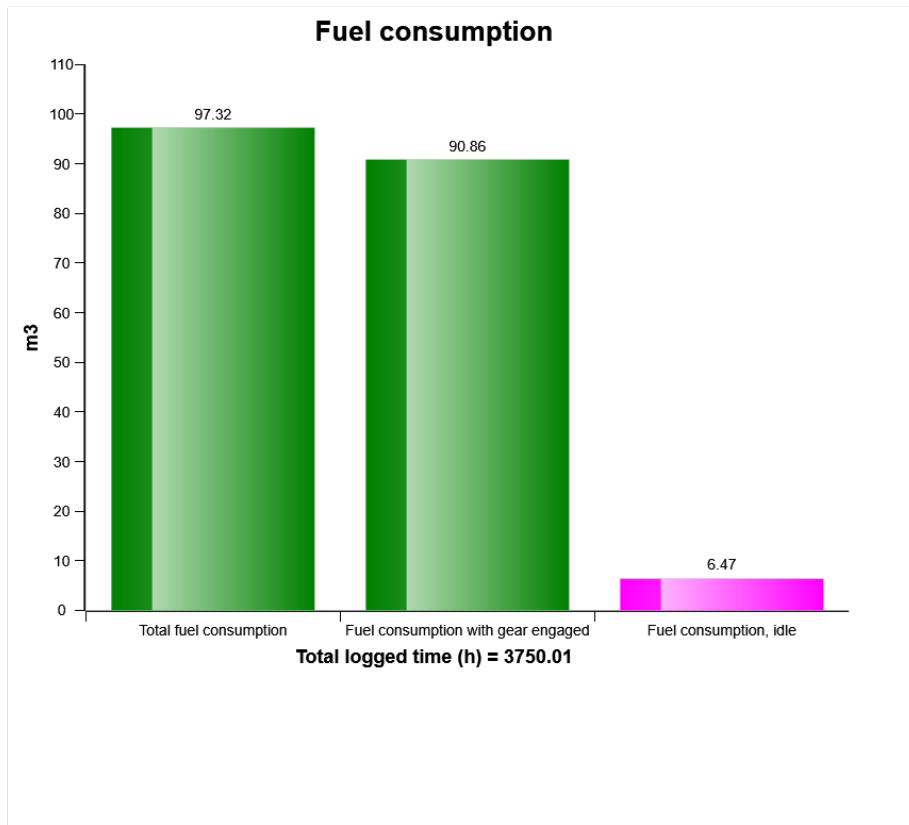
Machine model	SerialNo	Operating Hours	Reading Date
A40G	341140	3804.8	30/05/2019



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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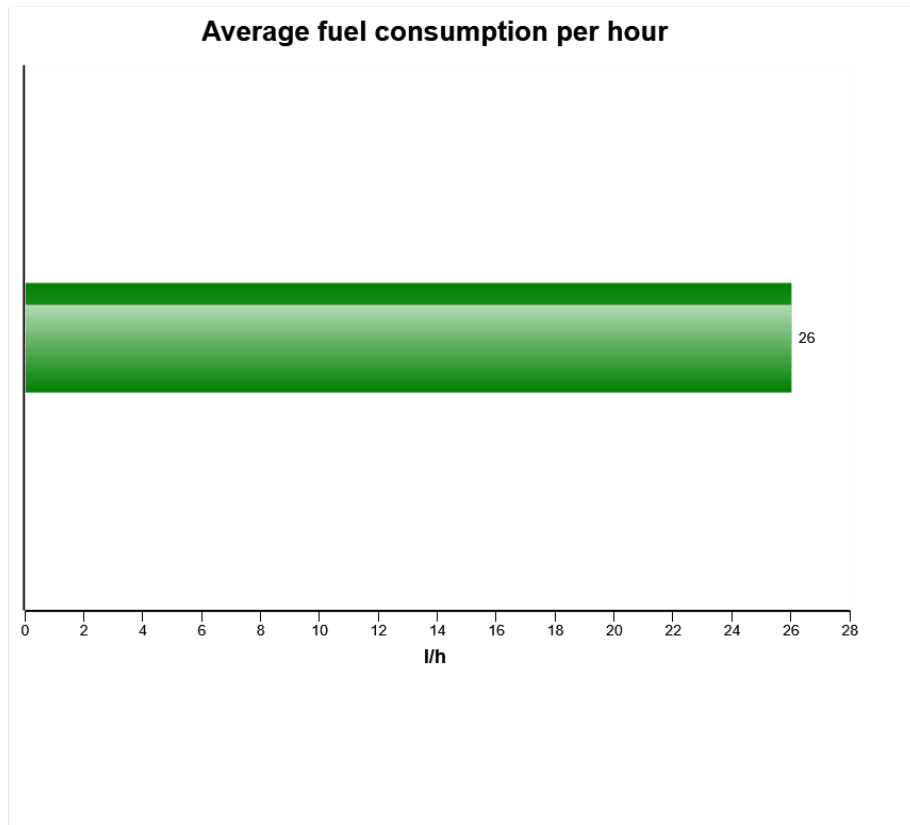


The diagram shows the total fuel consumption, fuel consumption with gear engaged and fuel consumption during idle.

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



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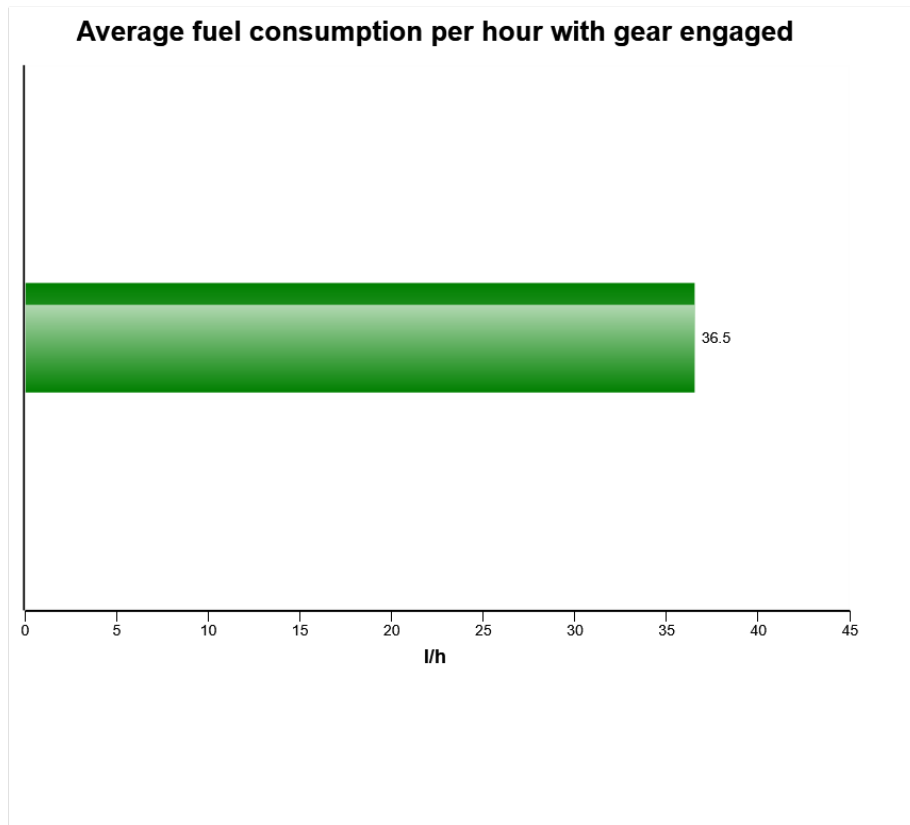


The diagram shows the average fuel consumption based on total operating hours.





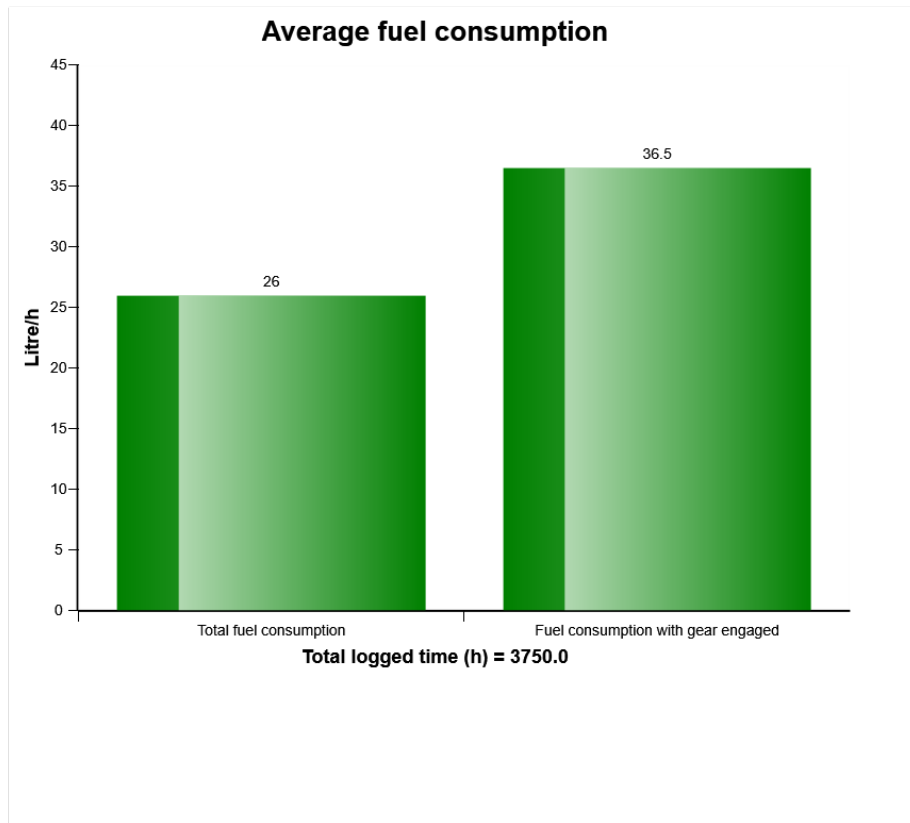
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The diagram shows the average fuel consumption based on the operating hours with gear engaged.



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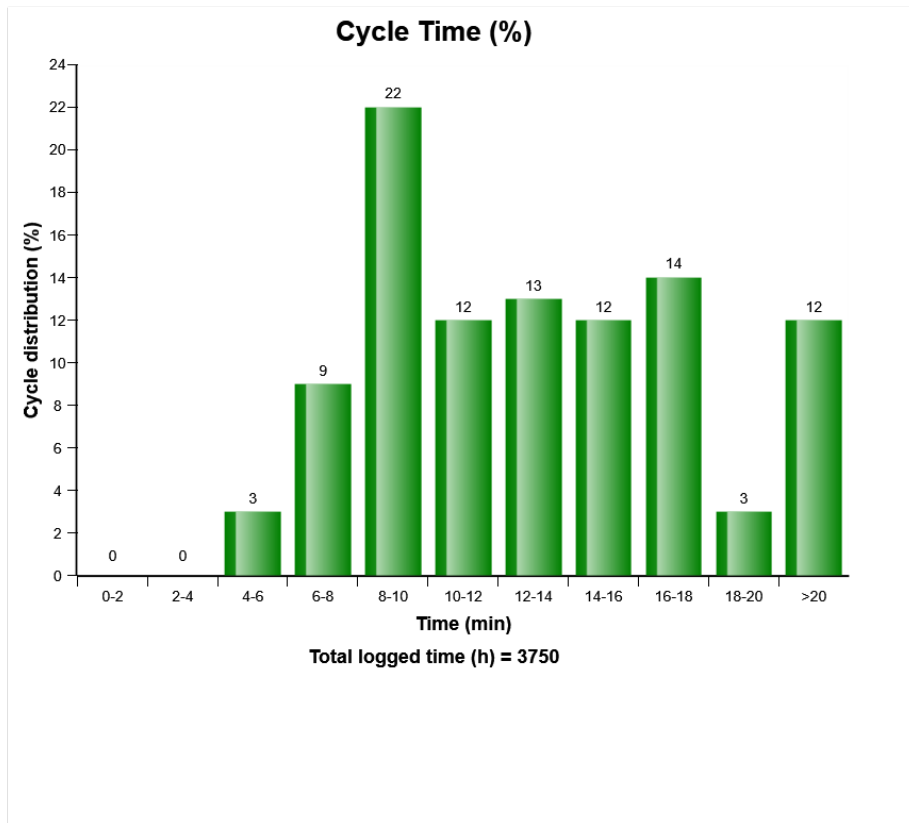


The diagram shows the total average fuel consumption versus average fuel consumption with gear engaged.

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



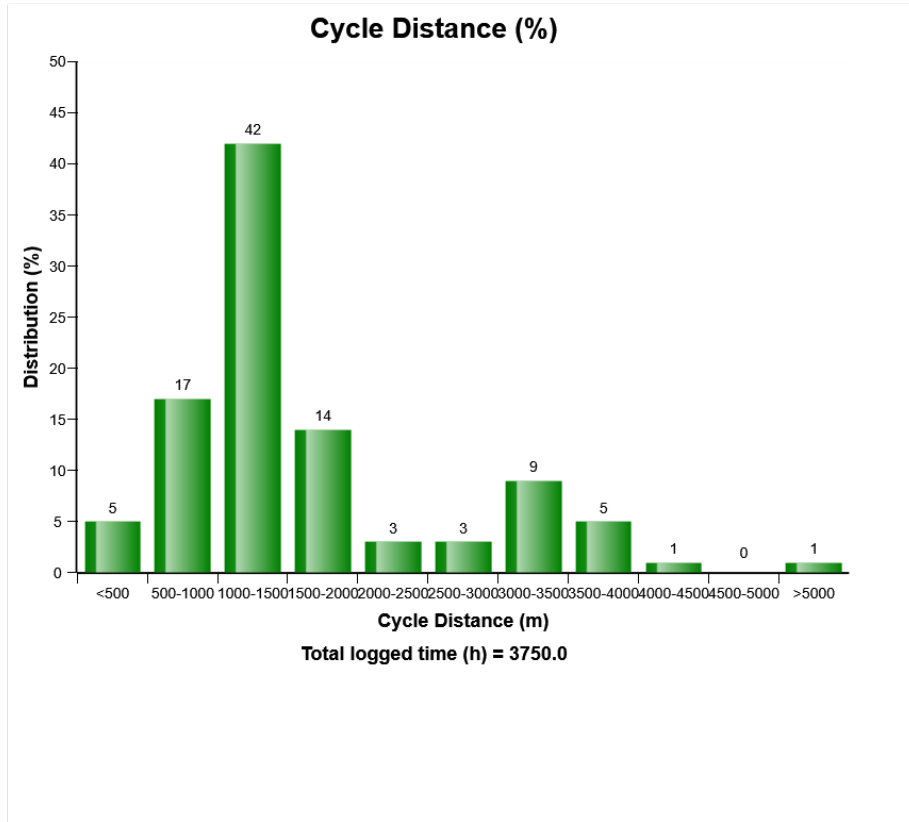
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The diagram shows the distribution of the working cycle time. The time between 2 valid cycle registrations is registered. Time starts from lifting the body.



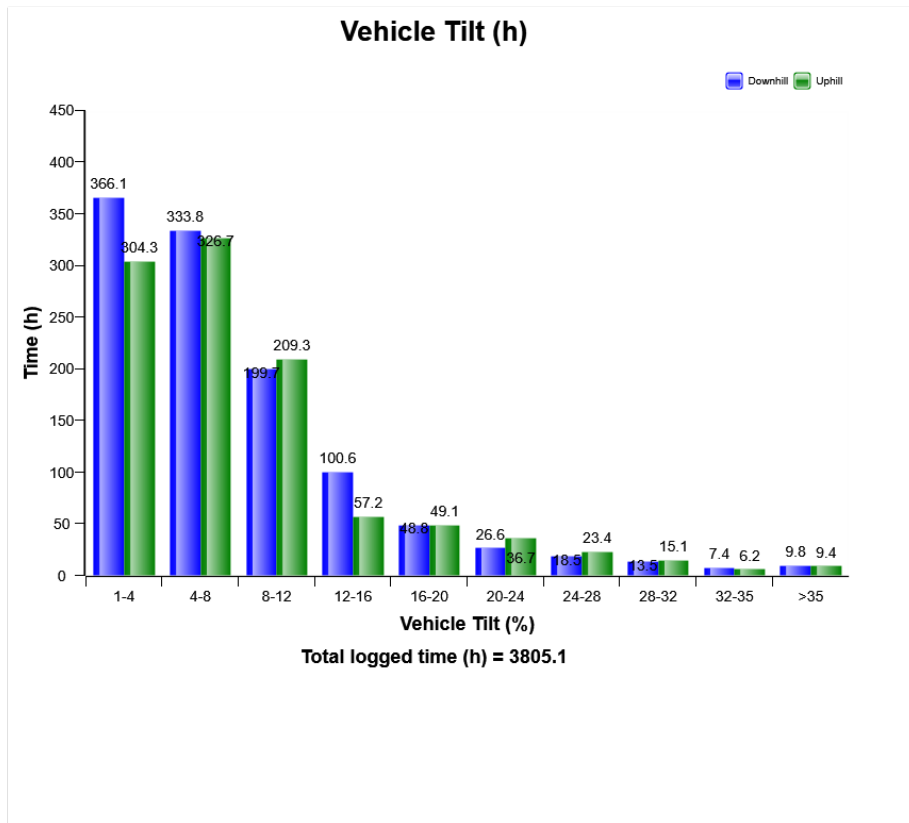
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The diagram shows the distribution of the working cycle distance. The distance driven between 2 valid cycle registrations.



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



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**Accumulated performance**  
**Total logged time (h) =**

<b>Total logged time (h) =</b>
<b>Total fuel consumption</b>
<b>Production (tonne)</b>
<b>Tonne/h</b>
<b>Tonne/litre</b>
<b>Litre/tonne</b>
<b>Number of cycles</b>
<b>Cycles overloaded (%)</b>
<b>Load utilisation / cycle (%)</b>

The table shows the accumulated values for respectively area stated in the table.

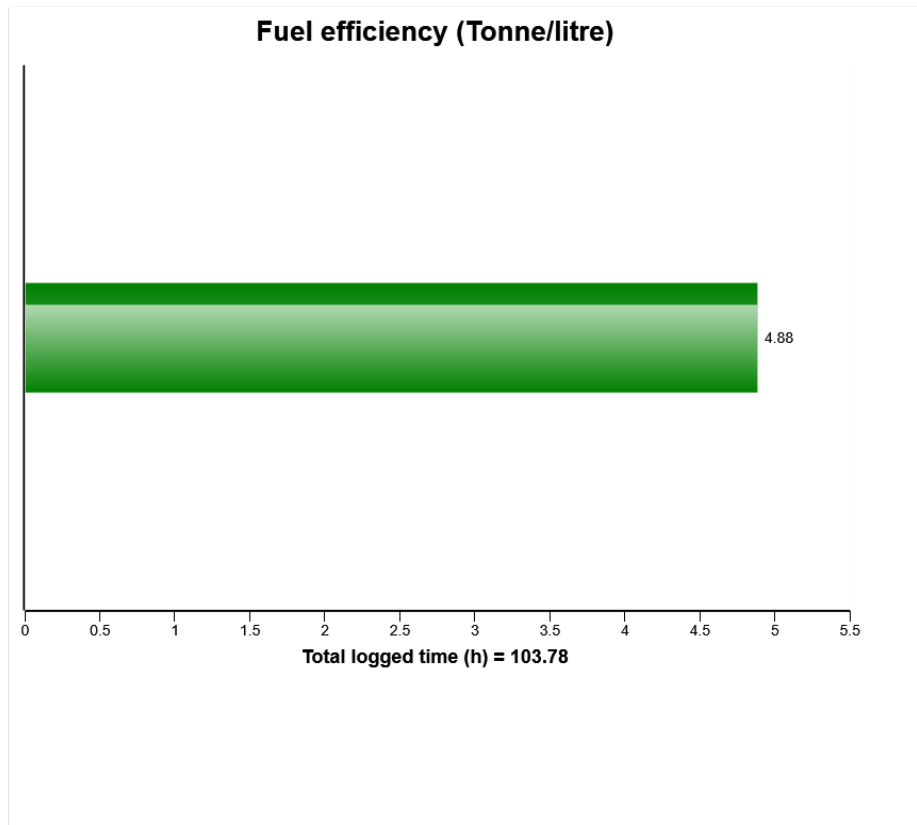
Values are saved over the life of the machine only when the engine is running.



103.8
2323.9
11349.4
109.4
4.9
0.2
312
0.0
93.3



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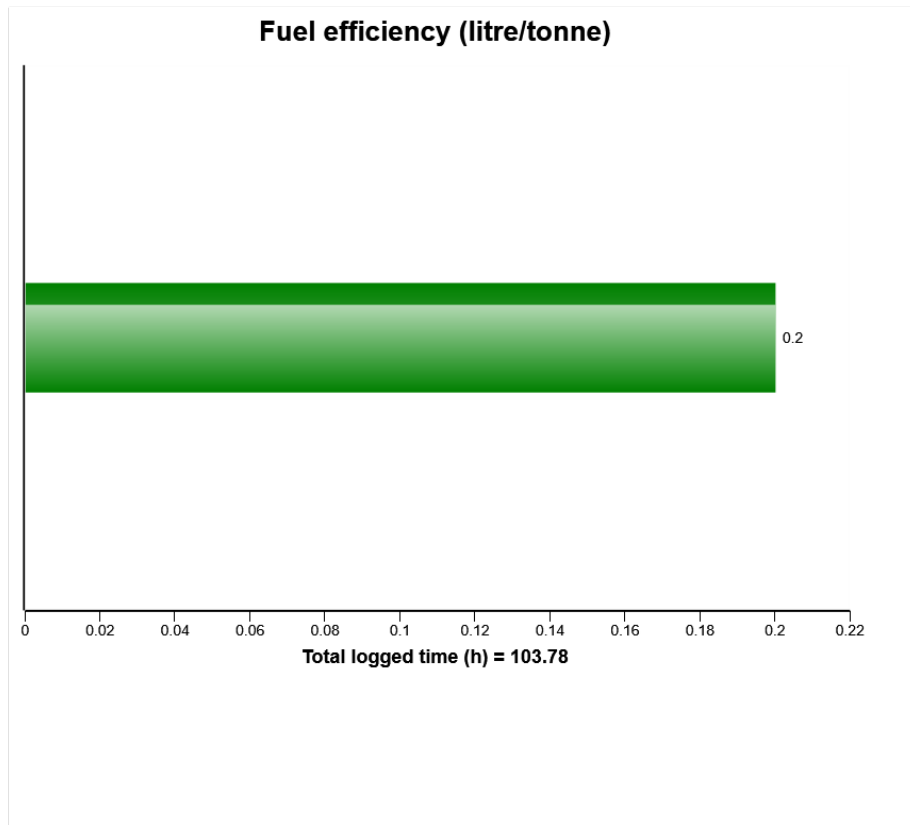


The presentation display the average produced tonne per fuel unit over the machines lifetime





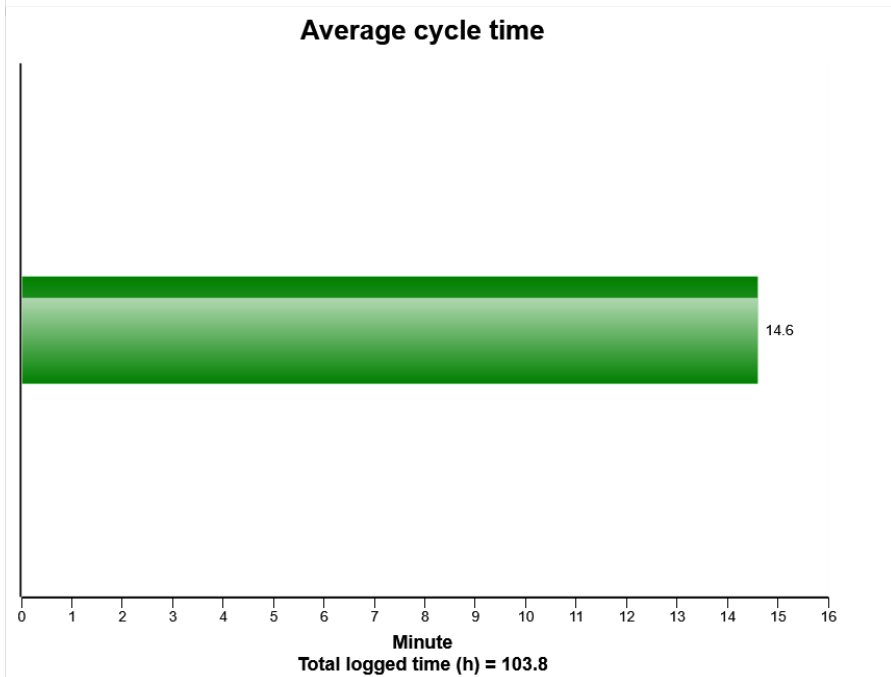
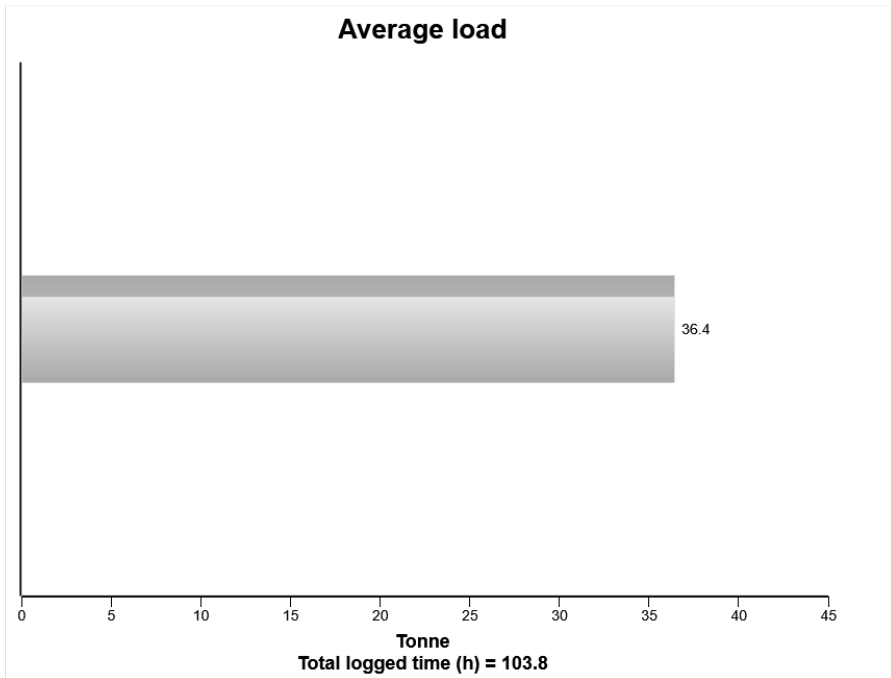
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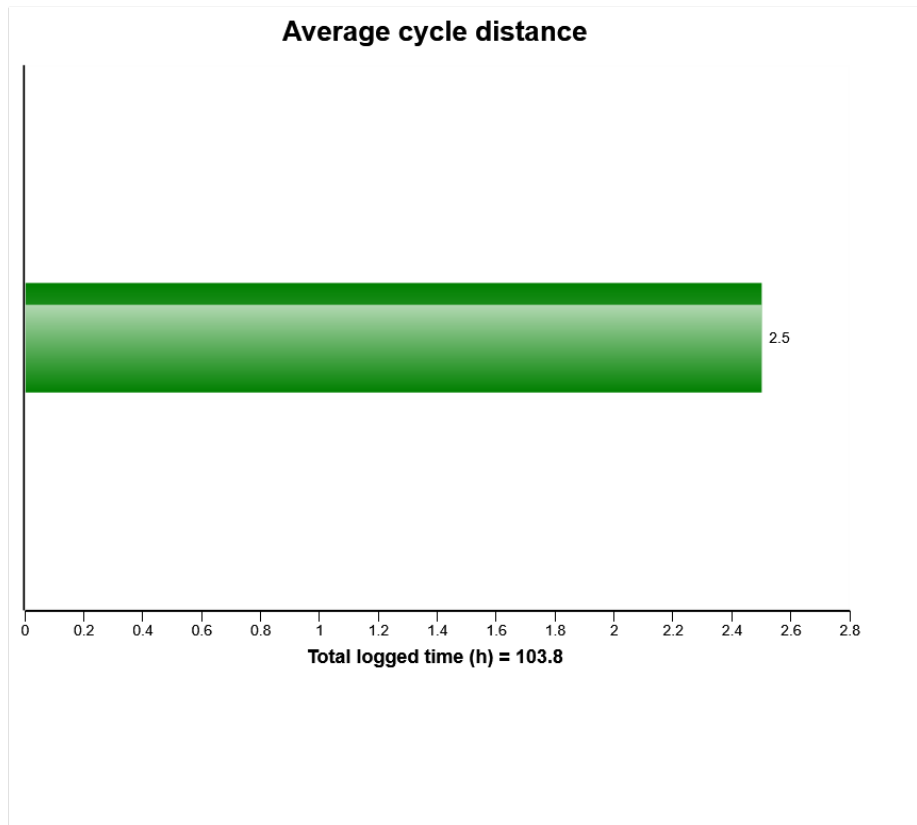
The presentation shows the average fuel consumption per tonne over the machines lifetime



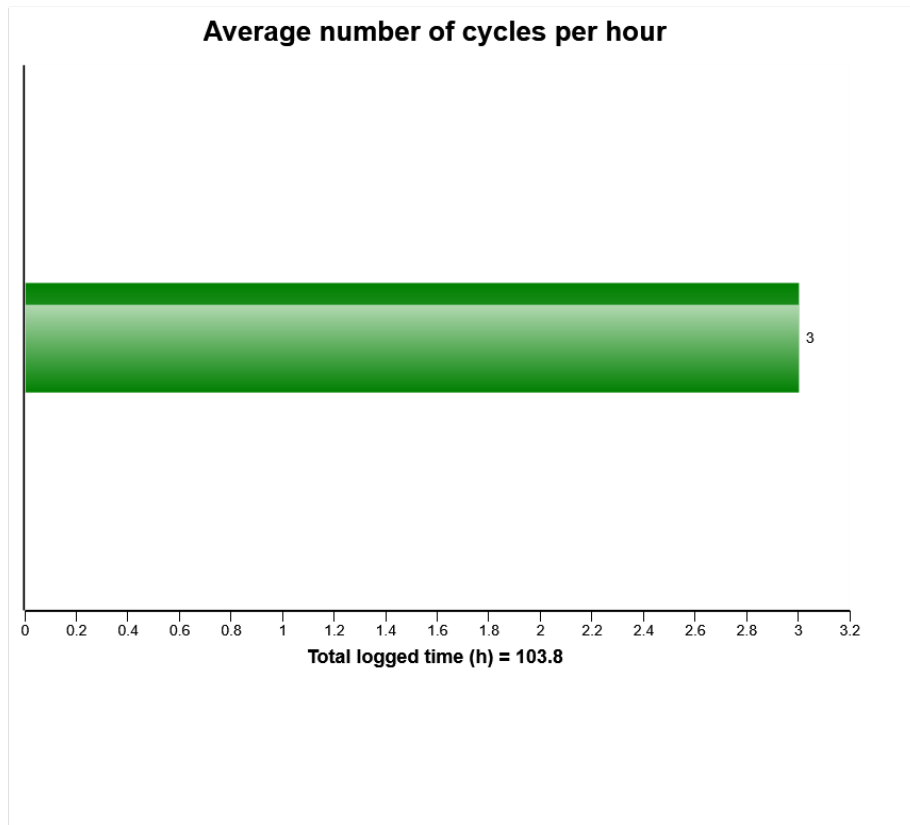
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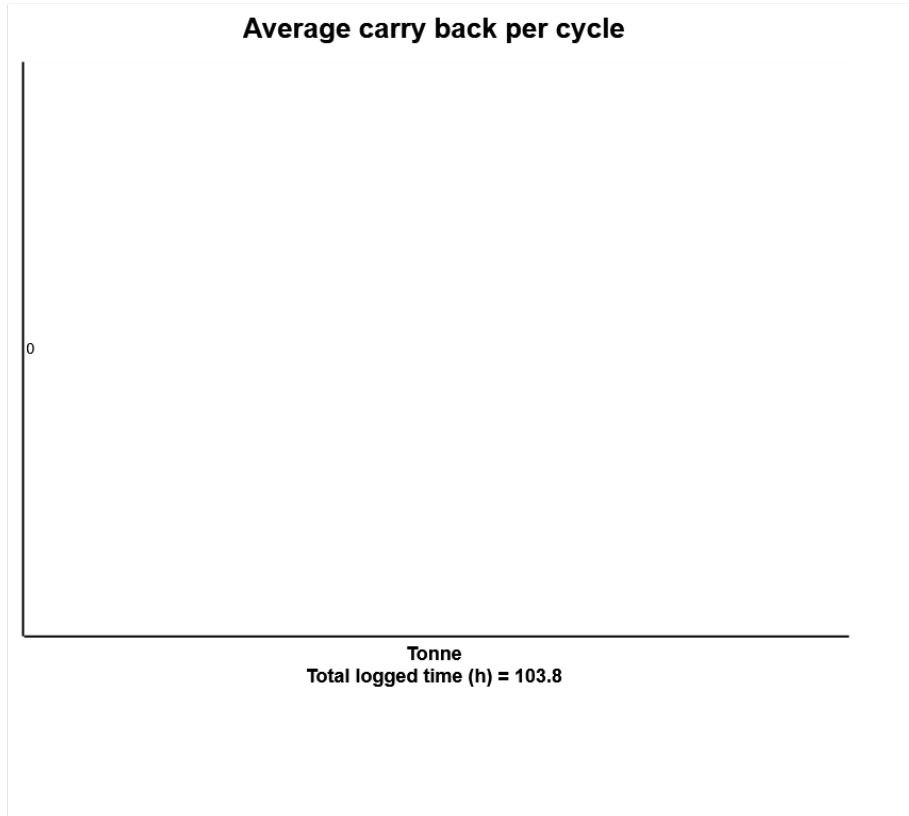
Machine model	SerialNo	Operating Hours	Reading Date
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The presentation shows the average number of cycles per hour over the machines lifetime.



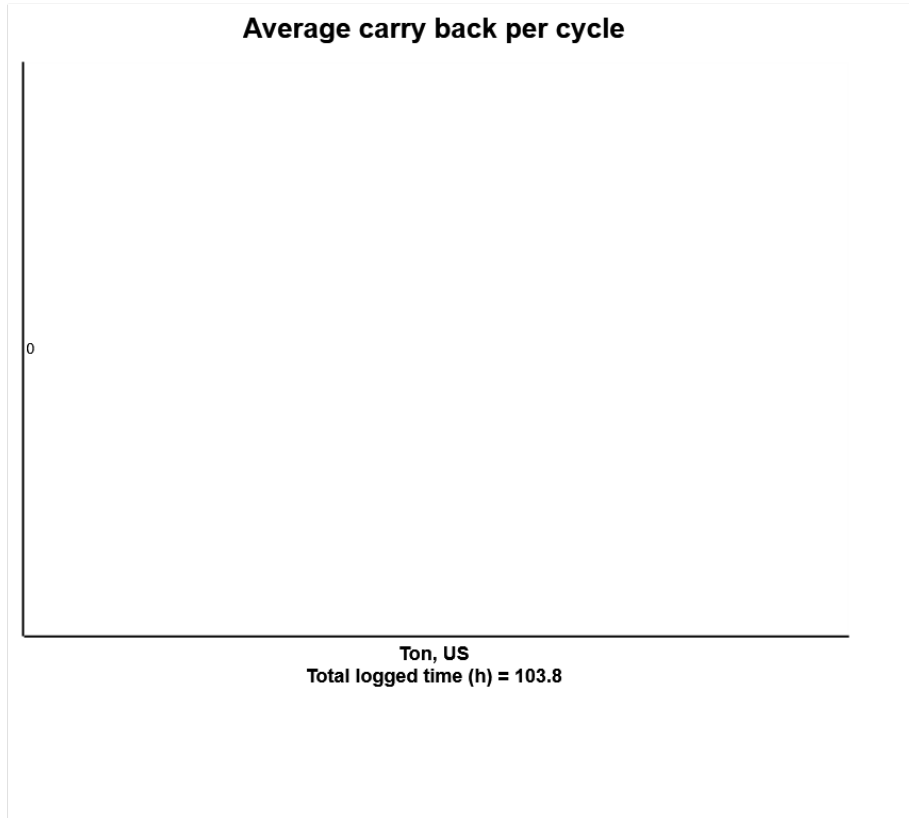
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An error has occurred while processing HtmlTextBox 'htmlTextBox1':  
'WordSection1' is an unexpected token. The expected token is "" or "". Line 1, position 18.



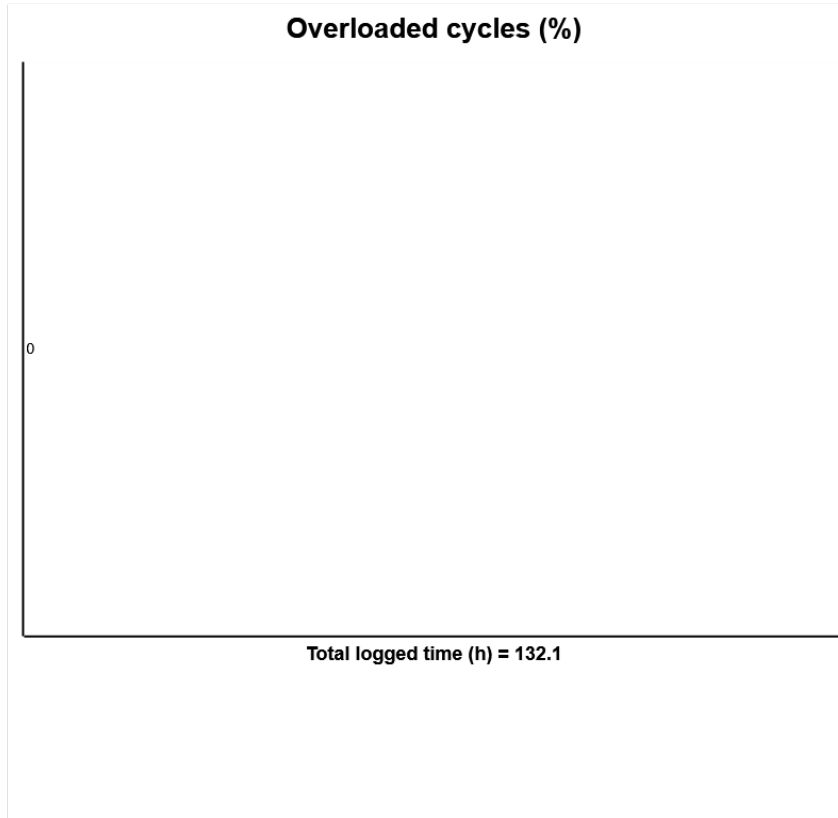
Machine model	SerialNo	Operating Hours	Reading Date
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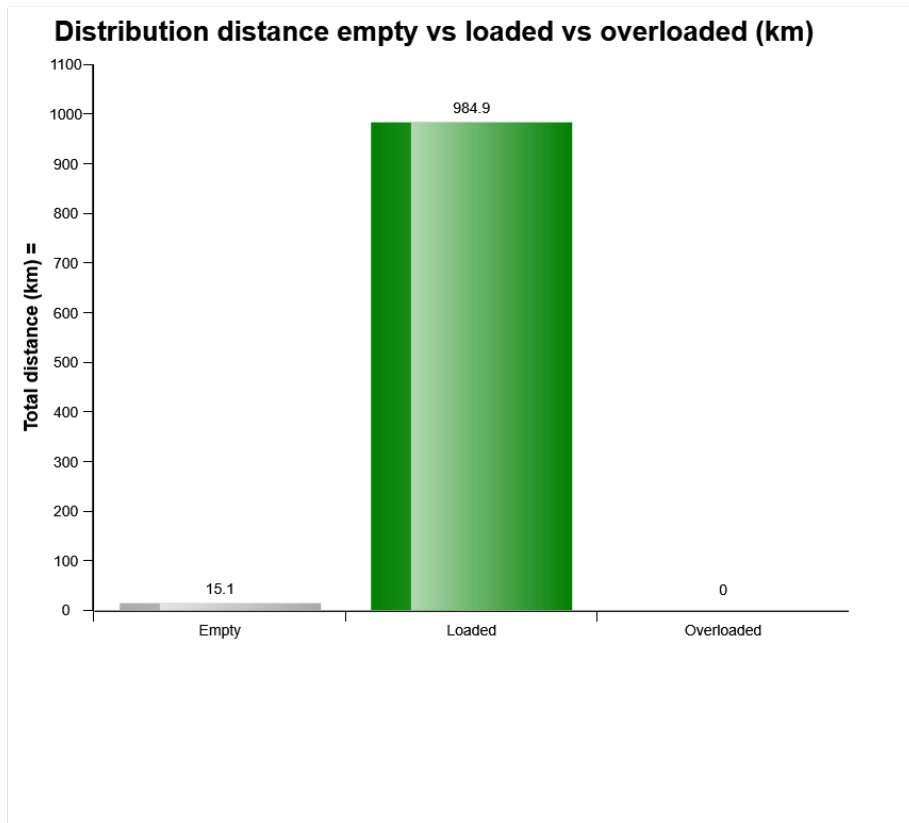
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An error has occurred while processing HtmlTextBox 'htmlTextBox1':  
The ':' character, hexadecimal value 0x3A, cannot be included in a name. Line 1, position 656.



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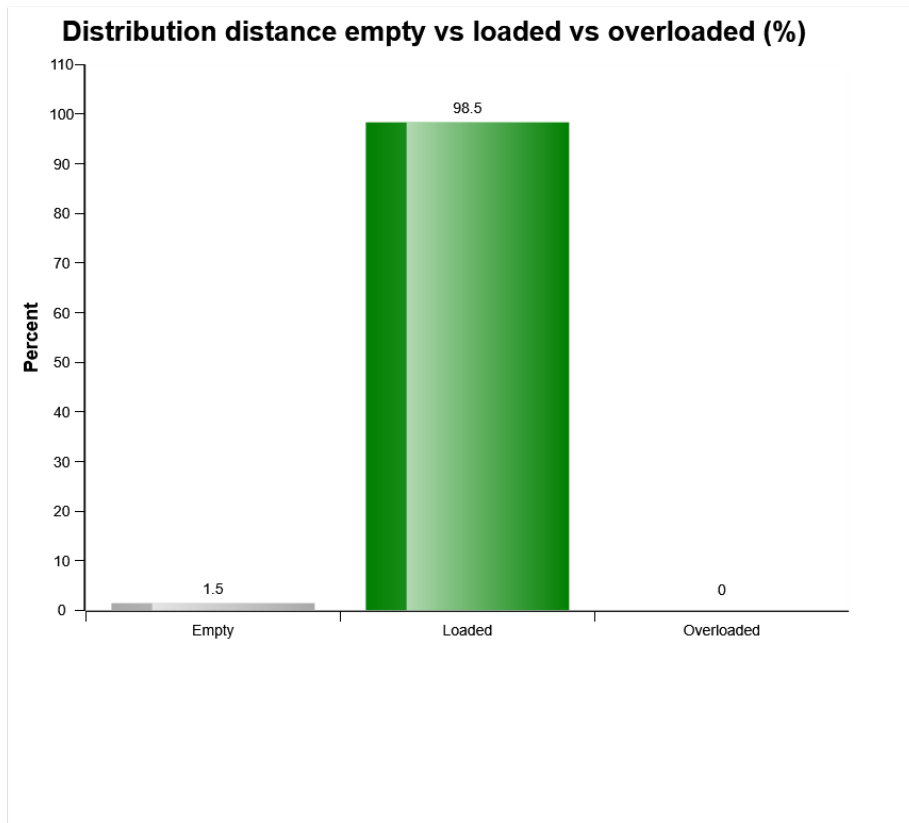
Much time operated with overload puts unnessesery stress to the machine which could lead to shorter machine life and higher repair and maintenance cost.

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





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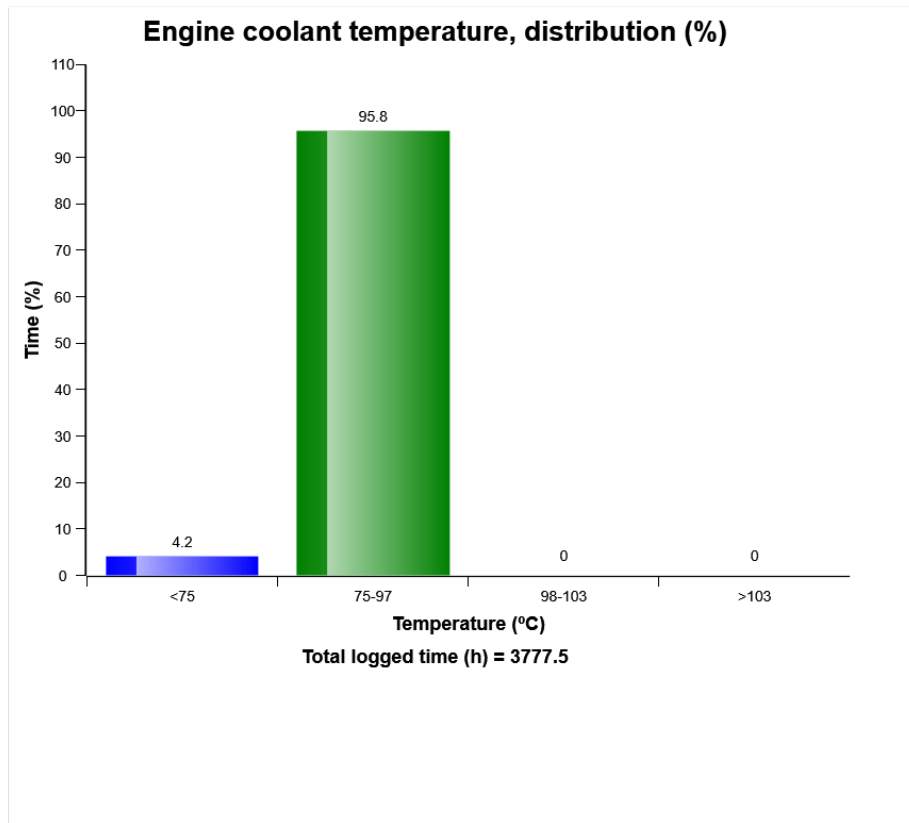


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**Definition:**

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.

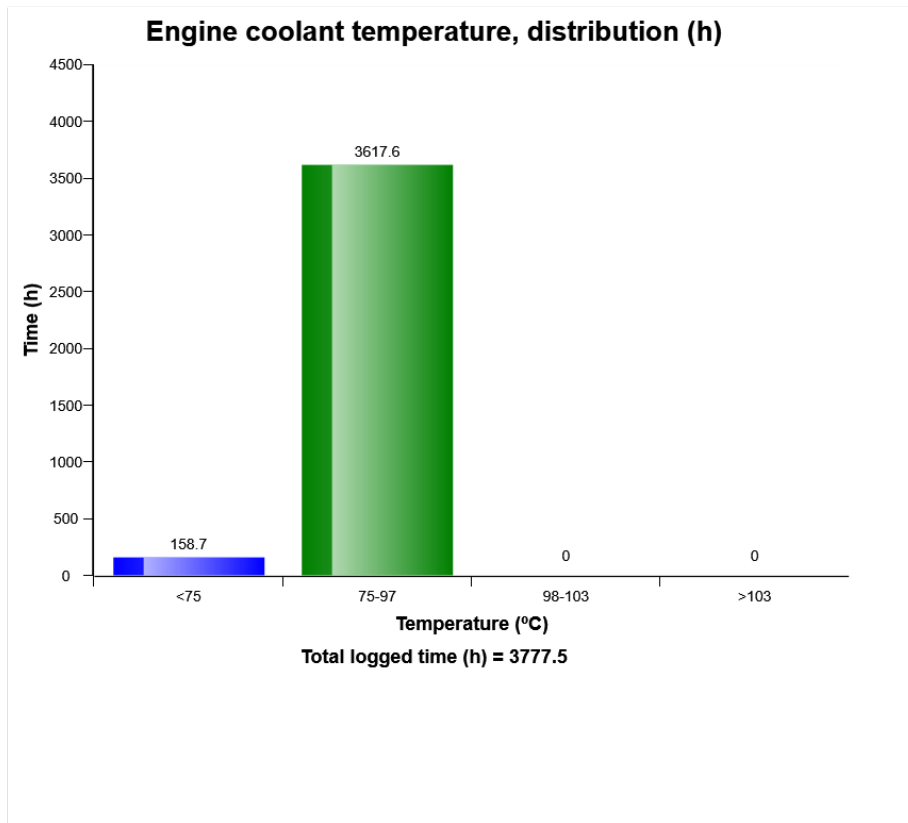
**Yellow bar** = High working temperature. It is normal to have some registrations in this region.

**Red bar** = Alarm.

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



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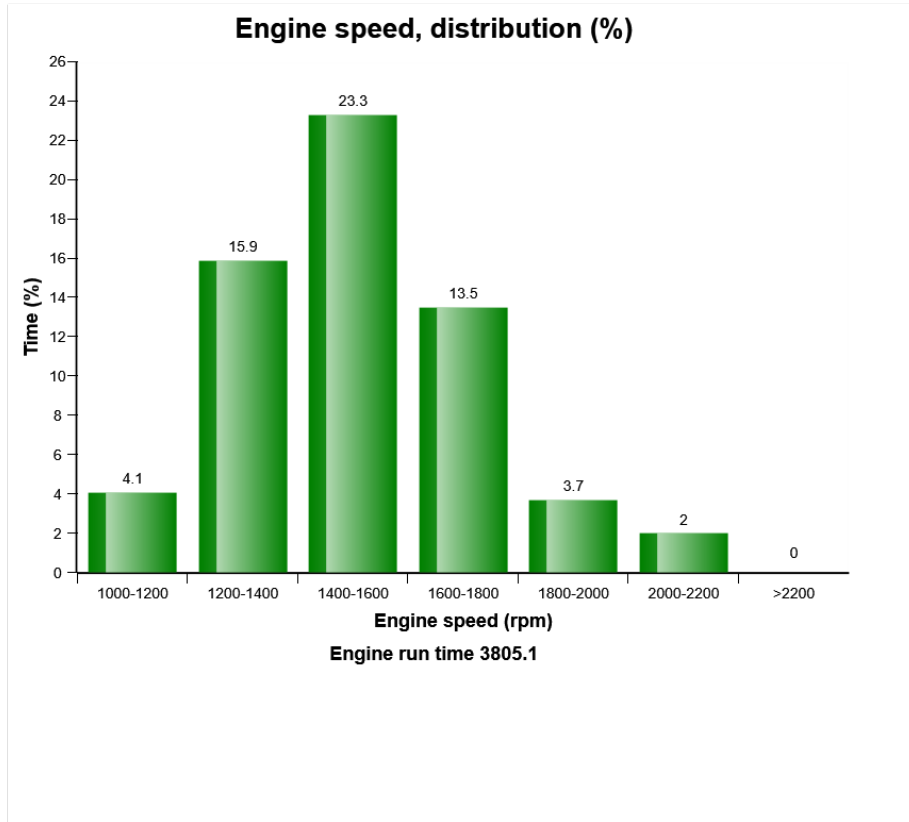
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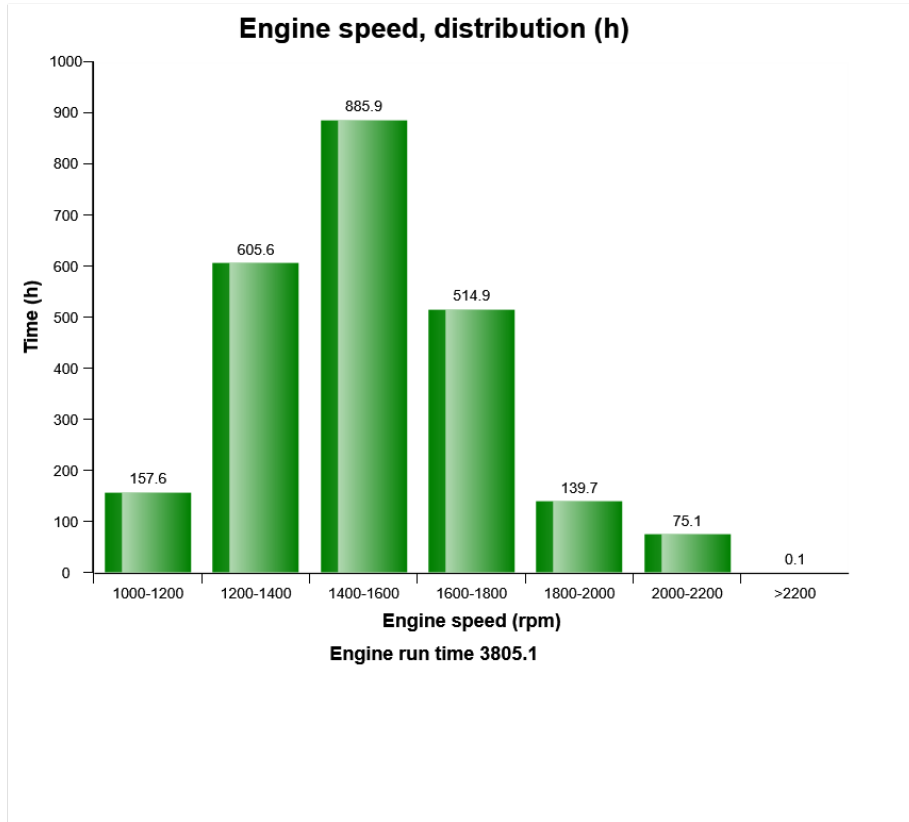
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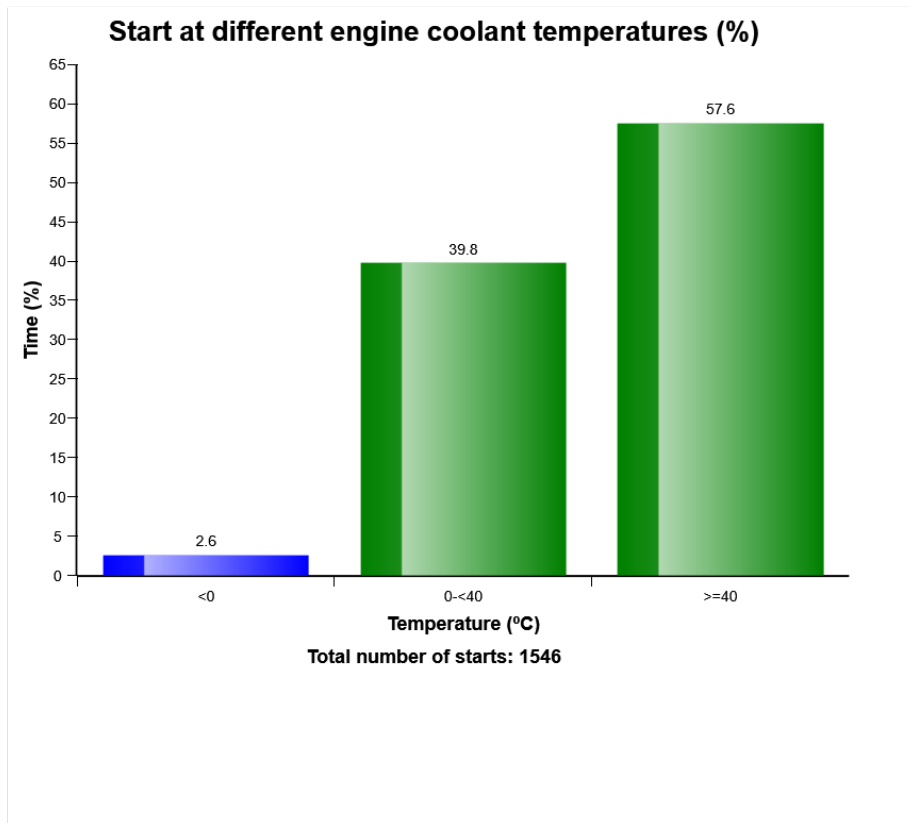
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Machine model	SerialNo	Operating Hours	Reading Date
A40G	341140	3804.8	30/05/2019



**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.





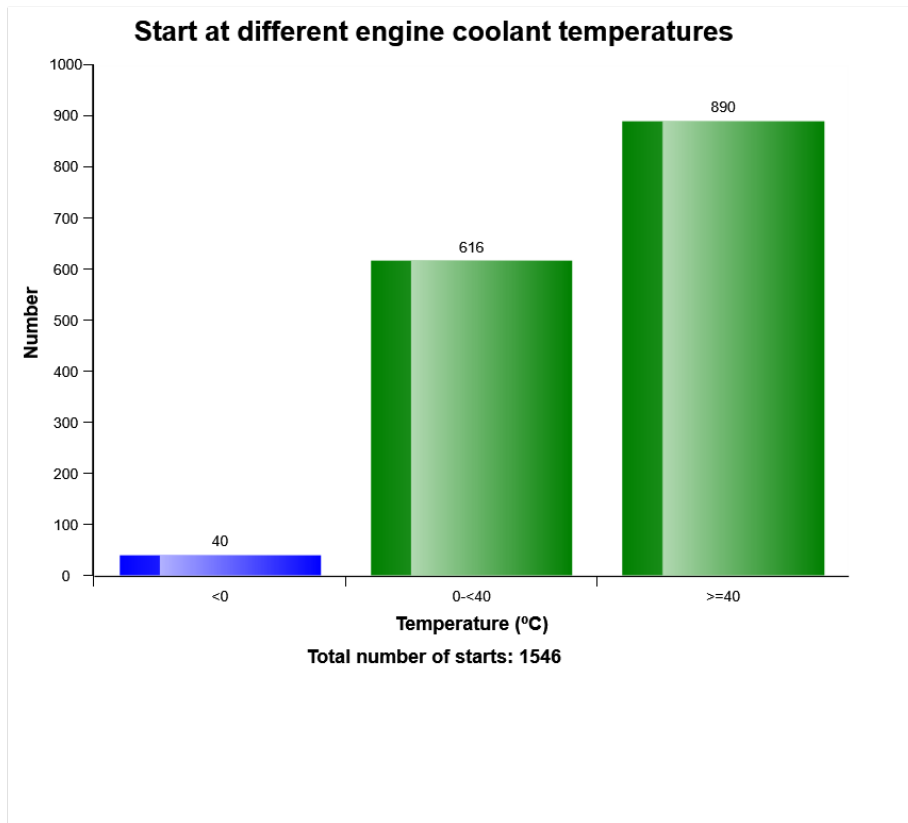
Machine model	SerialNo	Operating Hours	Reading Date
A40G	341140	3804.8	30/05/2019

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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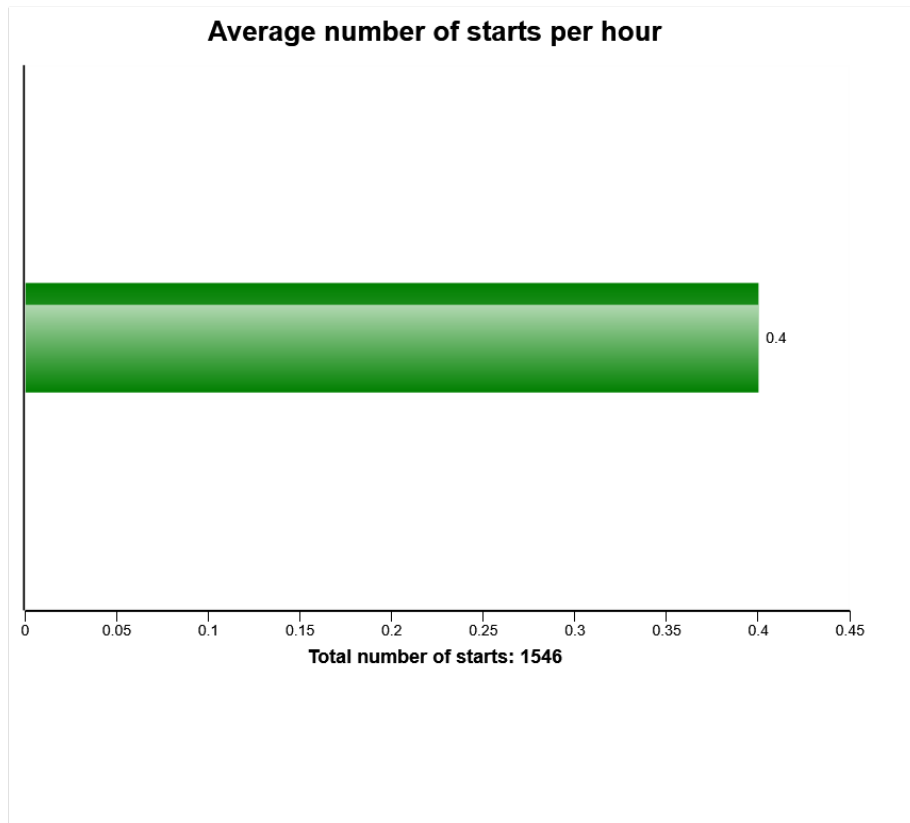
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**Definition:**

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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Green bar = Number of average starts per hour



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**High engine coolant temperature  
Total number of occurrences = 0**

	Op hours	Year	Month	Day	Hour	Minute	Duration (sec)
<b>A</b>	0	2000	0	0	0	0	0
<b>B</b>	0	2000	0	0	0	0	0
<b>C</b>	0	2000	0	0	0	0	0
<b>D</b>	0	2000	0	0	0	0	0
<b>E</b>	0	2000	0	0	0	0	0
<b>F</b>	0	2000	0	0	0	0	0
<b>G</b>	0	2000	0	0	0	0	0
<b>H</b>	0	2000	0	0	0	0	0
<b>I</b>	0	2000	0	0	0	0	0
<b>J</b>	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.**





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**Criteria :**

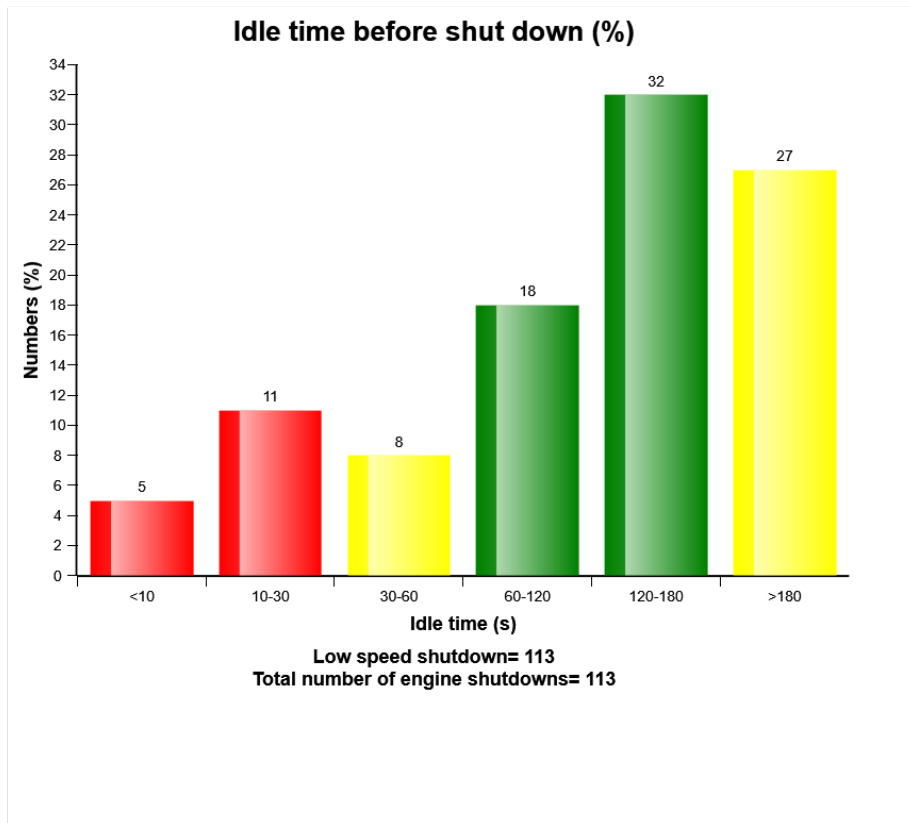
The criteria to get an registration, is that the alarm signal for high engine coolant temperature is active and that the diesel engine is running.







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**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
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**High engine oil temperature  
Total number of occurrences = 0**

	Op hours	Year	Month	Day	Hour	Minute	Duration (sec)
<b>A</b>	0	2000	0	0	0	0	0
<b>B</b>	0	2000	0	0	0	0	0
<b>C</b>	0	2000	0	0	0	0	0
<b>D</b>	0	2000	0	0	0	0	0
<b>E</b>	0	2000	0	0	0	0	0
<b>F</b>	0	2000	0	0	0	0	0
<b>G</b>	0	2000	0	0	0	0	0
<b>H</b>	0	2000	0	0	0	0	0
<b>I</b>	0	2000	0	0	0	0	0
<b>J</b>	0	2000	0	0	0	0	0

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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.







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minutes since the latest alarm .

### Explanation:

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







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event has occurred.

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Over the table the total number of events is displayed.

Duration :

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

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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.









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**Regeneration duration**  
**Total number of occurrences = 51**

Op hours	Year	Month	Day	Hour	Minute	Duration (min)
2904	2018	6	29	6	15	44
2904	2018	6	28	17	3	15
2981	2018	7	10	13	0	55
3056	2018	7	19	7	25	53
3130	2018	7	30	12	28	52
3206	2018	8	14	8	31	40
3206	2018	8	14	8	0	21
3285	2018	8	27	12	58	55
3360	2018	9	12	14	40	87
3429	2018	9	24	7	52	111
3453	2018	9	27	10	44	33
3456	2018	9	27	13	36	38
3461	2018	9	28	9	41	63
3462	2018	9	28	10	46	68
3472	2018	10	1	11	8	13
3507	2018	10	9	10	36	67
3601	2018	11	7	6	42	62
3686	2018	11	23	10	45	29
3686	2018	11	23	11	49	40
3756	2018	12	4	13	2	70









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an event has occurred.

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**Duration :**

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**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.





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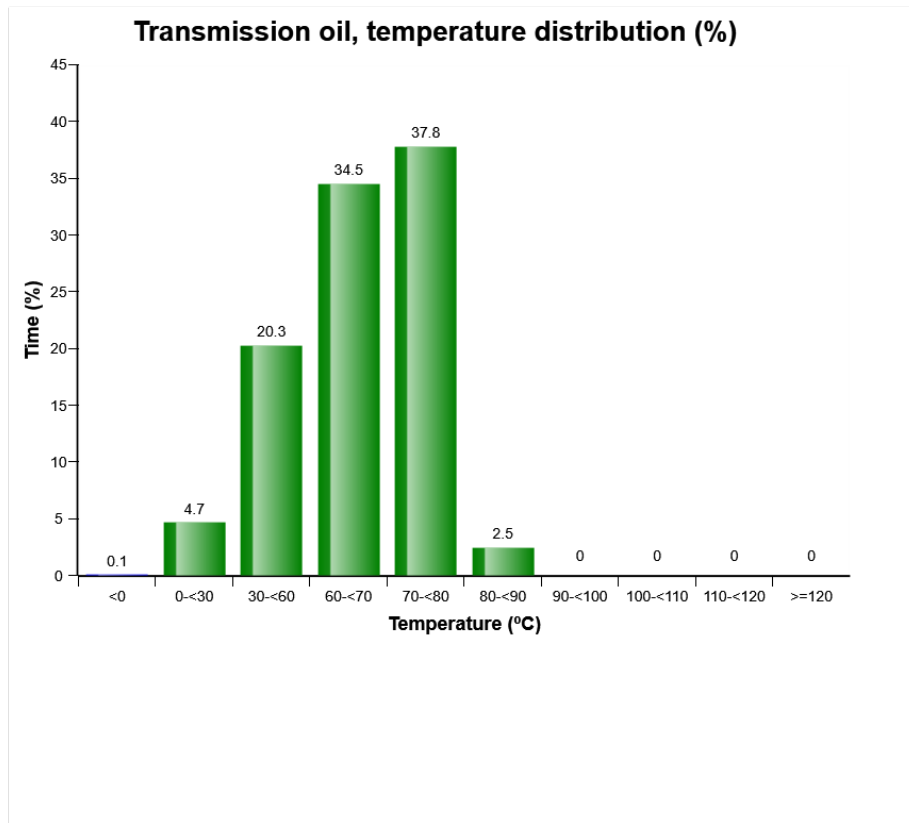
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The diagram shows the transmission oil temperature in various temperature ranges. The time is displayed in the following ten temperature ranges:

<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



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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

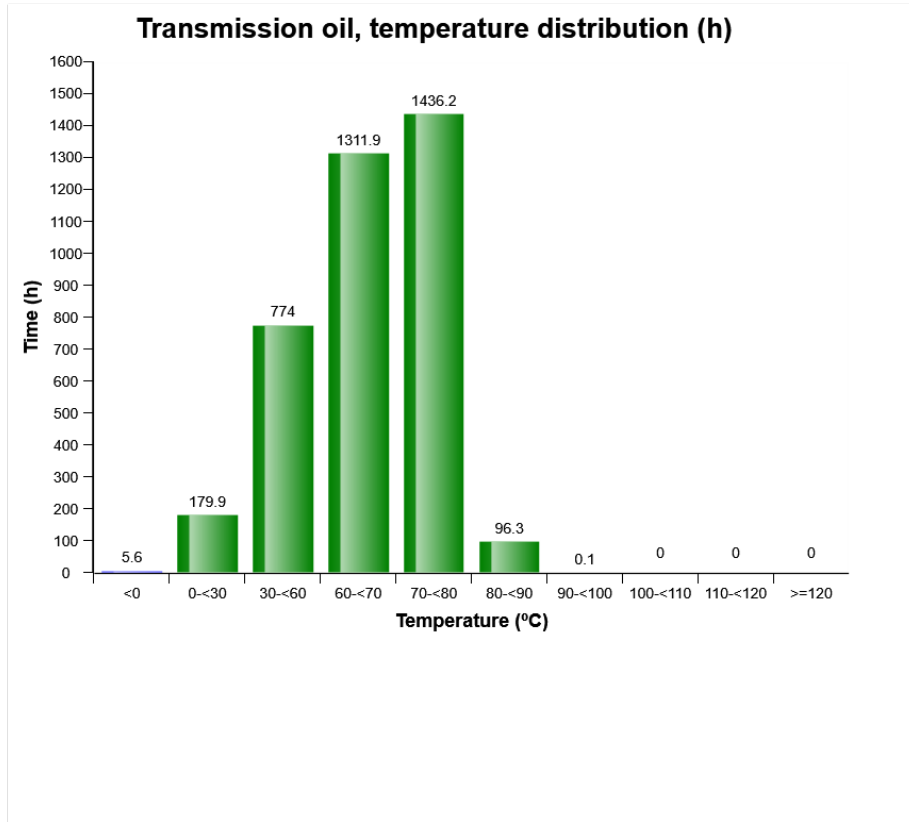
The bar that describes temperatures from 110°C until 120°C is yellow and means that the oil has begun to be overheated. Driver has been given orange central warning

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
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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	341140	3804.8	30/05/2019

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

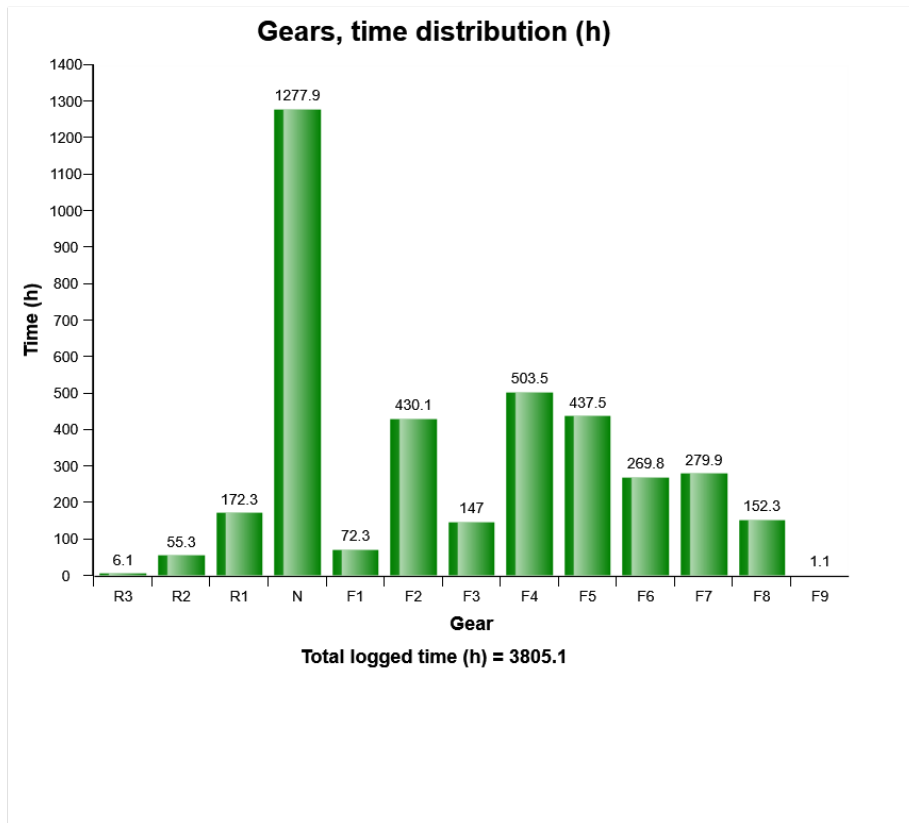
The bar that describes temperatures from 110° C until 120°C is yellow and means that the oil has begun to be overheated. Driver has been given orange central warning

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	341140	3804.8	30/05/2019



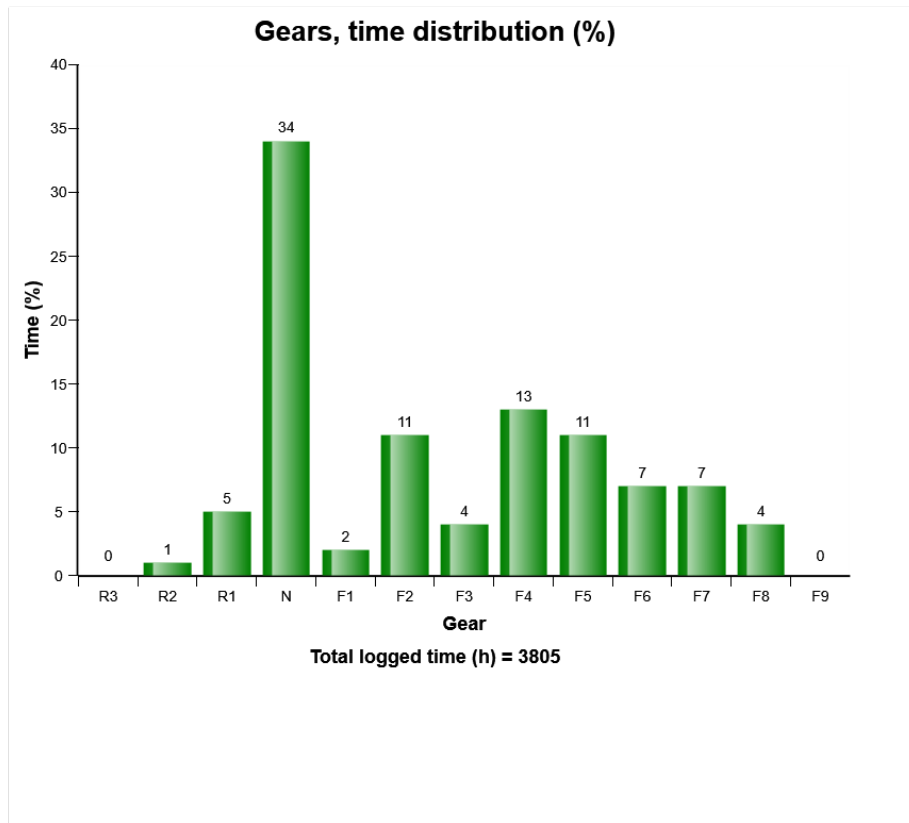
The diagram shows the time for each gear. Each bar represents a gear.

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





Machine model	SerialNo	Operating Hours	Reading Date
A40G	341140	3804.8	30/05/2019

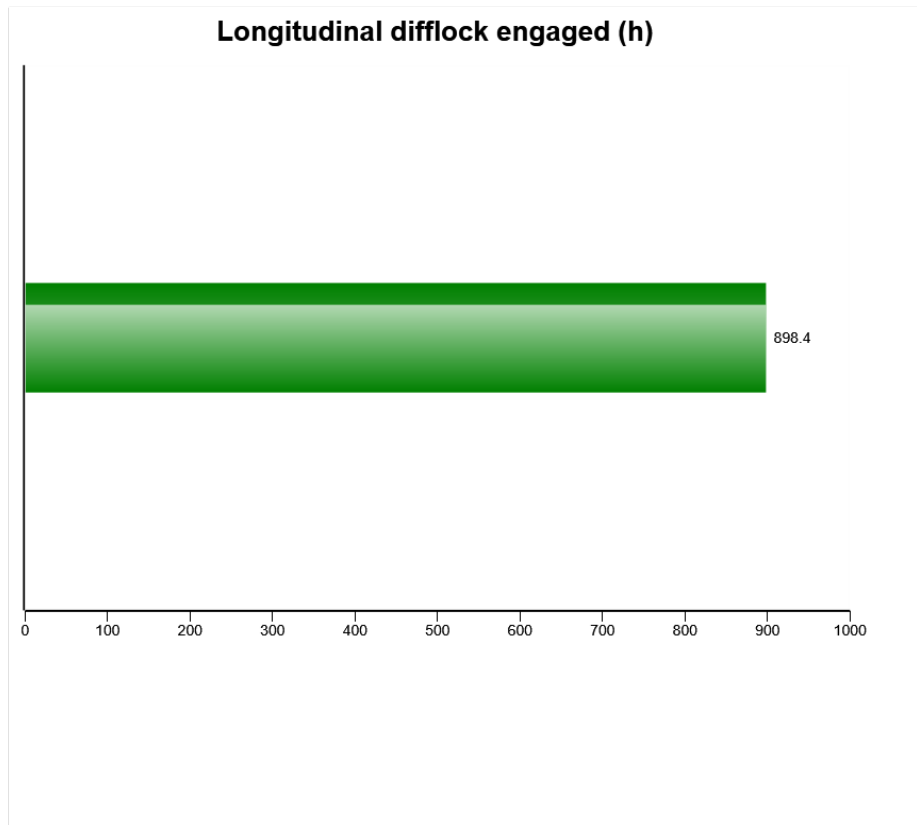


The diagram shows the time for each gear. Each bar represents a gear.

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



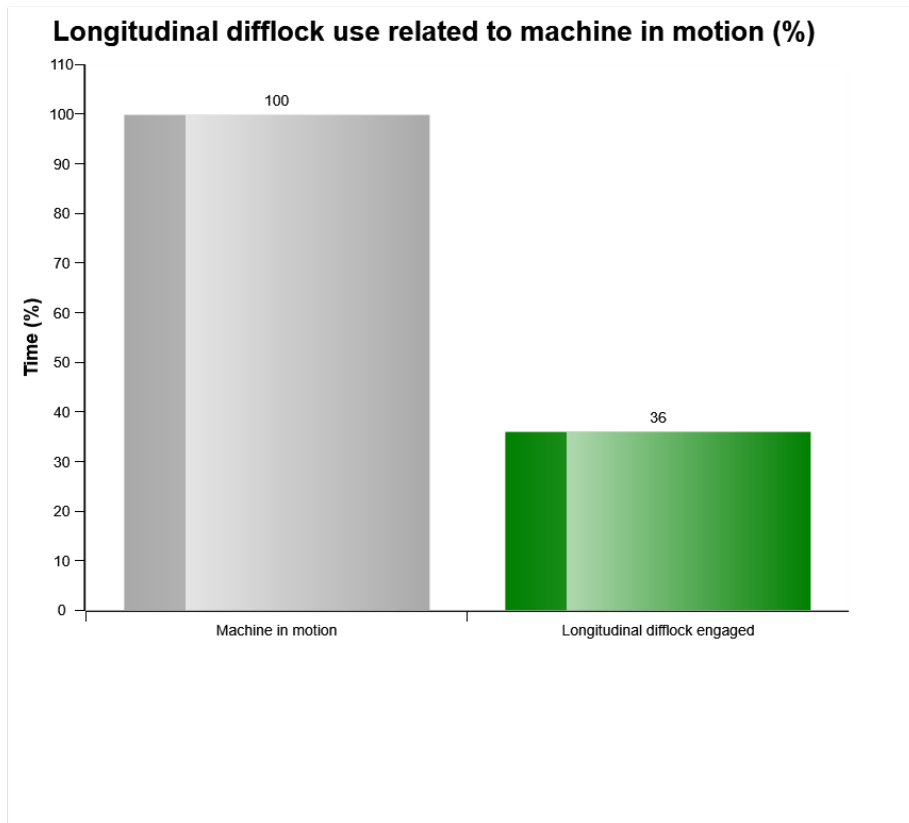
Machine model	SerialNo	Operating Hours	Reading Date
A40G	341140	3804.8	30/05/2019



The diagram shows how long time in hours the longitudinal difflock has been engaged. The presentation only shows time when the machine is moving as this is when the wear on the difflock occurs. The difflock should always be disengage when not needed to avoid unnecessary wear.



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341140	3804.8	30/05/2019



The diagram shows the percentage of engaged longitudinal difflock in relation to machine in motion.

The longitudinal difflock should always be disengaged when not needed to reduce wear.

The normal use of the longitudinal difflock in relation to the time that the machine has been operated depends on the operating conditions. Generally, the more offroad applications the machine operates in, the higher the longitudinal difflock use shall be in relation to the time that the machine has been operated. Also operating in uphill conditions on slippery surface can require longitudinal difflock.

Also check " Longitudinal difflock engaged (h)"





Machine model	SerialNo	Operating Hours	Reading Date
A40G	341140	3804.8	30/05/2019

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 :

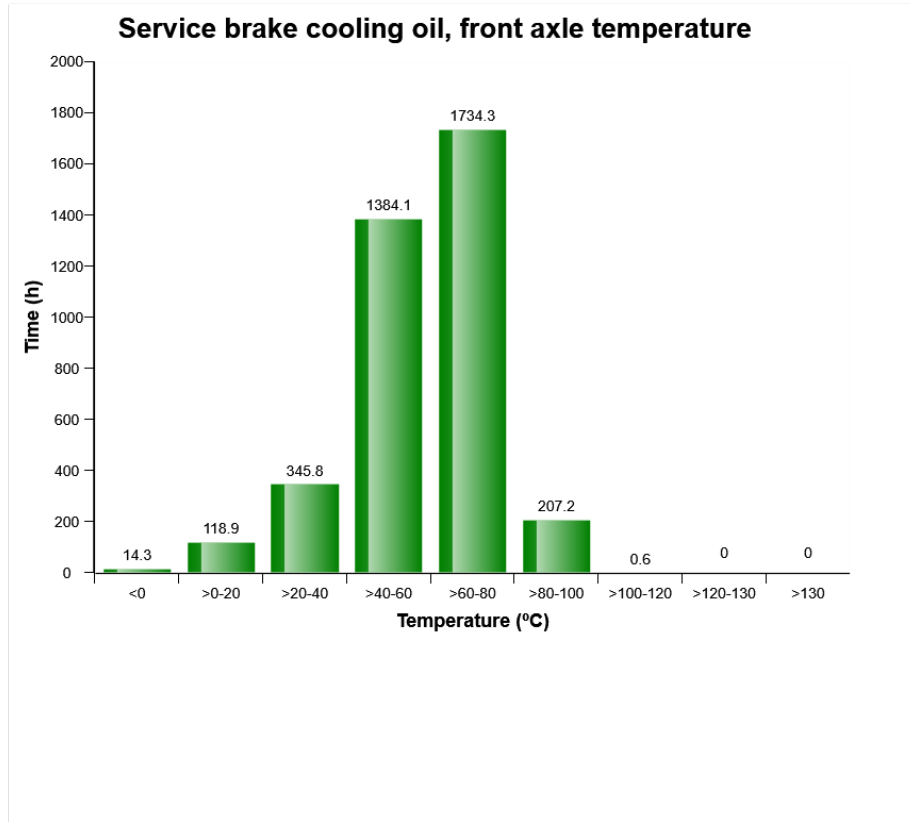
**The extreme value column displays the most extreme value during the event.**

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	341140	3804.8	30/05/2019

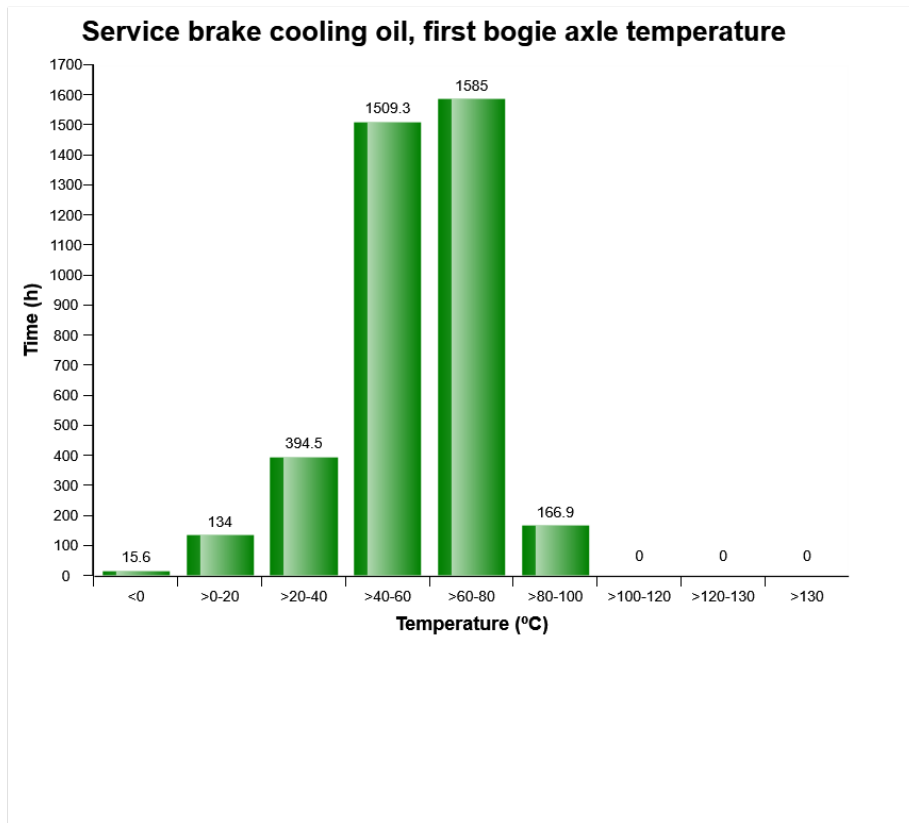


The diagram shows the front axle brake cooling oil temperature. The temperatures are divided into ranges, yellow bar (>120-130°C) and red bar (>130°C) shows abnormal temperatures. The temperature is registered in the line from the front axle to the oil cooler, that is, the warmest oil in the circuit.

The temperature shown by yellow and red bars degrade the properties of the cooling oil, and may be the result of incorrect and hard operation of the machine. Check the brake pressure distribution in the diagram "Service brake pressure, distribution (%)". If the brake cooling oil temperature is high despite normal distribution of service brake pressure, there is probably a malfunction in the brake cooling circuit



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341140	3804.8	30/05/2019

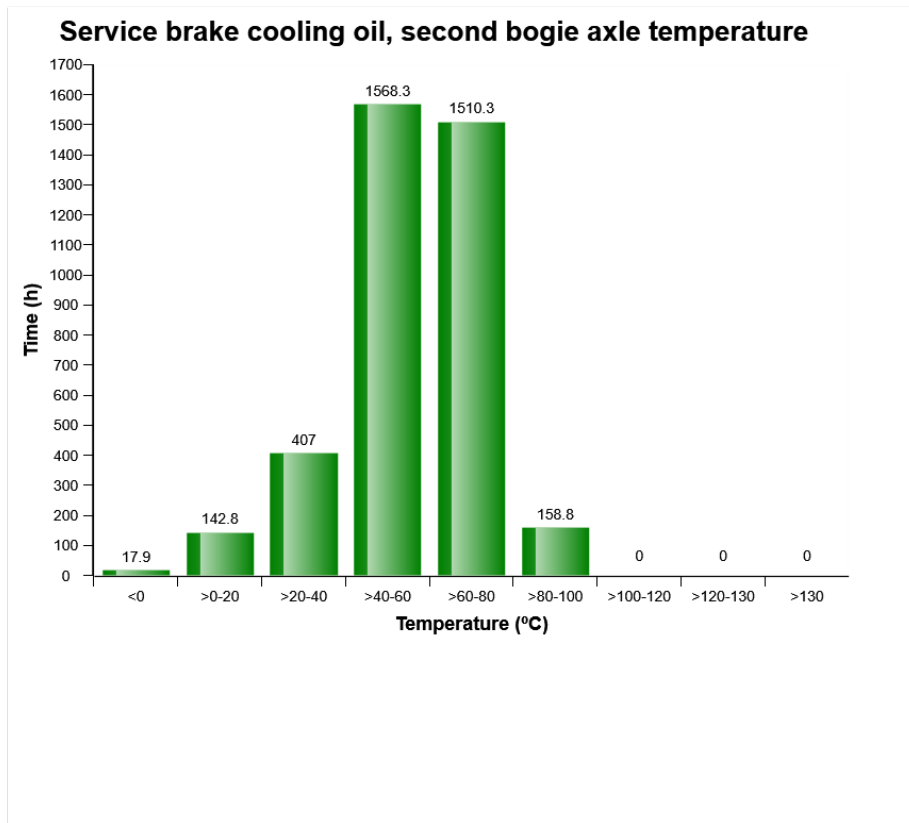


The diagram shows the first bogie axle brake cooling oil temperature. The temperatures are divided into ranges, yellow bar (>120-130°C) and red bar (>130°C) shows abnormal temperatures. The temperature is registered in the line from the first bogie axle to the oil cooler, that is, the warmest oil in the circuit.

The temperature shown by yellow and red bars degrade the properties of the cooling oil, and may be the result of incorrect and hard operation of the machine. Check the brake pressure distribution in the diagram "Service brake pressure, distribution (%)". If the brake cooling oil temperature is high despite normal distribution of service brake pressure, there is probably a malfunction in the brake cooling circuit



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341140	3804.8	30/05/2019



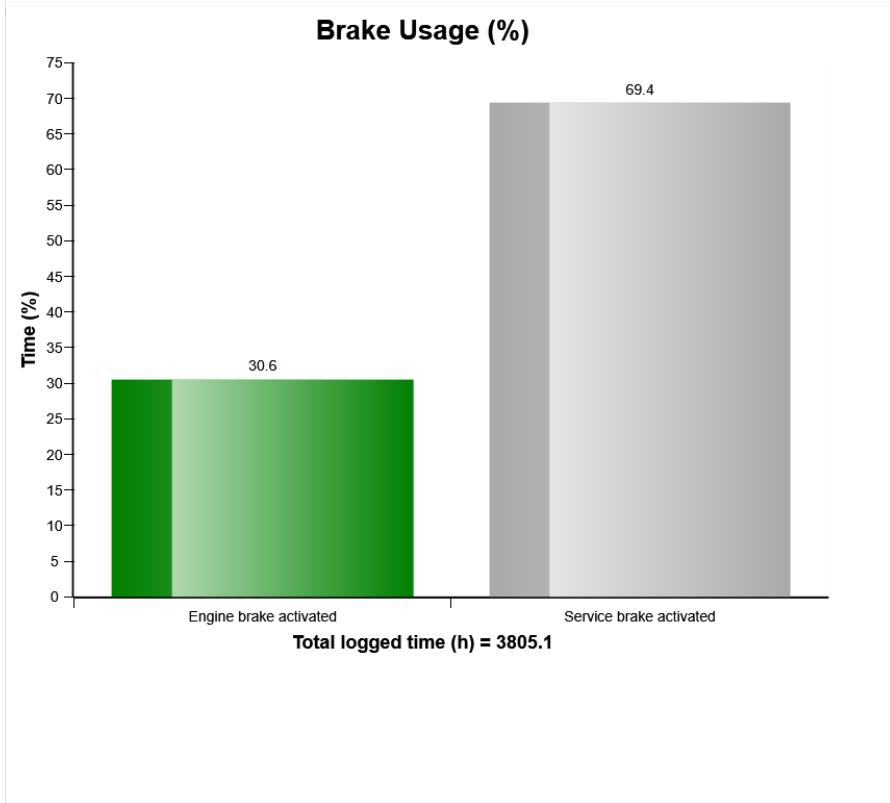
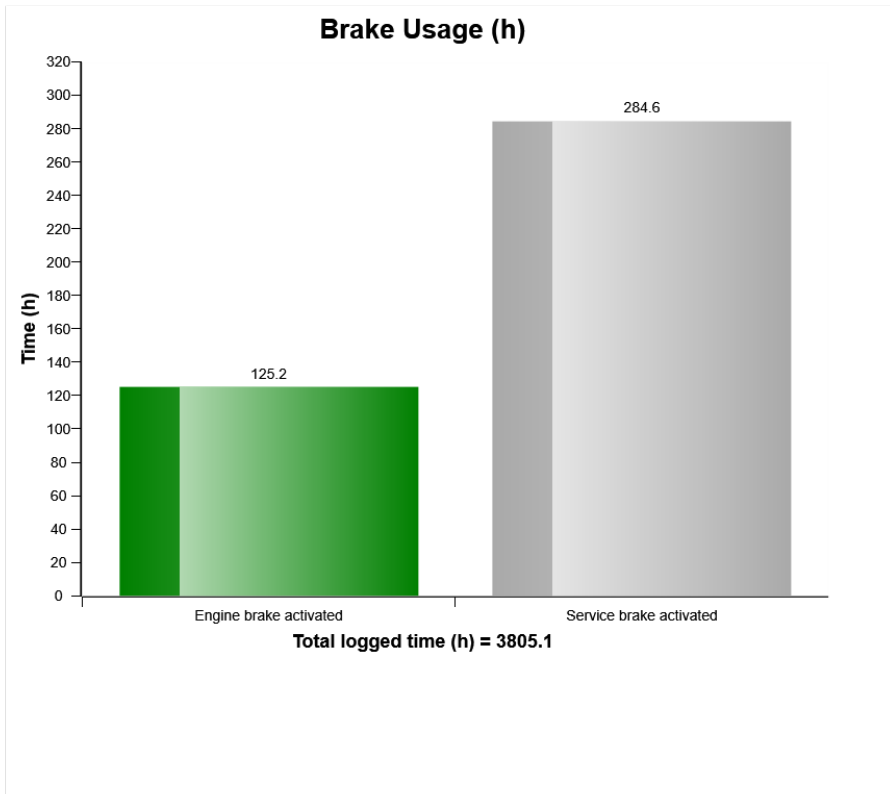
The diagram shows the Service brake cooling oil, second bogie axle temperature. The temperatures are divided into ranges, yellow bar (>120-130°C) and red bar (>130°C) shows abnormal temperatures. The temperature is registered in the line from the second bogie axle to the oil cooler, that is, the warmest oil in the circuit.

The temperature shown by yellow and red bars degrade the properties of the cooling oil, and may be the result of incorrect and hard operation of the machine. Check the brake pressure distribution in the diagram "Service brake pressure, distribution (%)". If the brake cooling oil temperature is high despite normal distribution of service brake pressure, there is probably a malfunction in the brake cooling circuit





Machine model	SerialNo	Operating Hours	Reading Date
A40G	341140	3804.8	30/05/2019



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341140	3804.8	30/05/2019

**Low Brake Servo Pressure**  
**Total number of occurrences = 5**

	Op hours	Year	Month	Day	Hour	Minute	Duration (sec)
<b>A</b>	0	2015	12	1	6	50	0
<b>F</b>	0	2000	0	0	0	0	0
<b>G</b>	0	2000	0	0	0	0	0
<b>H</b>	0	2000	0	0	0	0	0
<b>I</b>	0	2000	0	0	0	0	0
<b>J</b>	0	2000	0	0	0	0	0
<b>B</b>	1650	2017	4	15	7	15	0
<b>C</b>	1898	2017	8	7	6	20	0
<b>D</b>	3576	2018	10	22	11	52	10
<b>E</b>	3804	2019	4	4	15	50	1

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)**

153
0
0
0
0
0
0
151
150
151
144



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341140	3804.8	30/05/2019

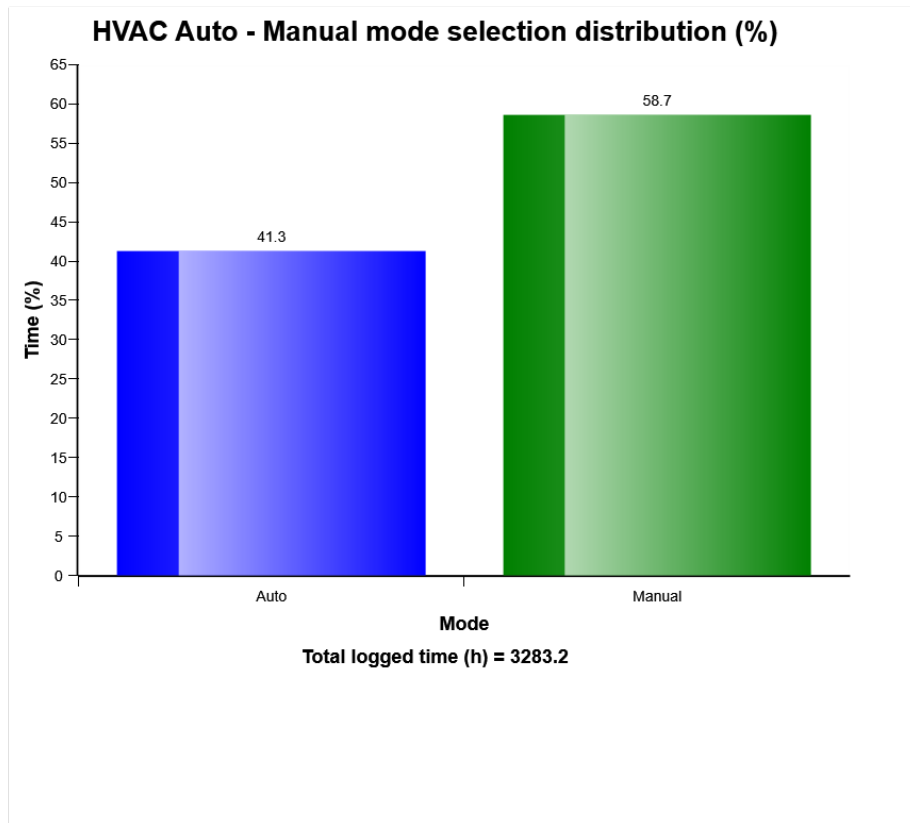
**Criteria :**

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	341140	3804.8	30/05/2019



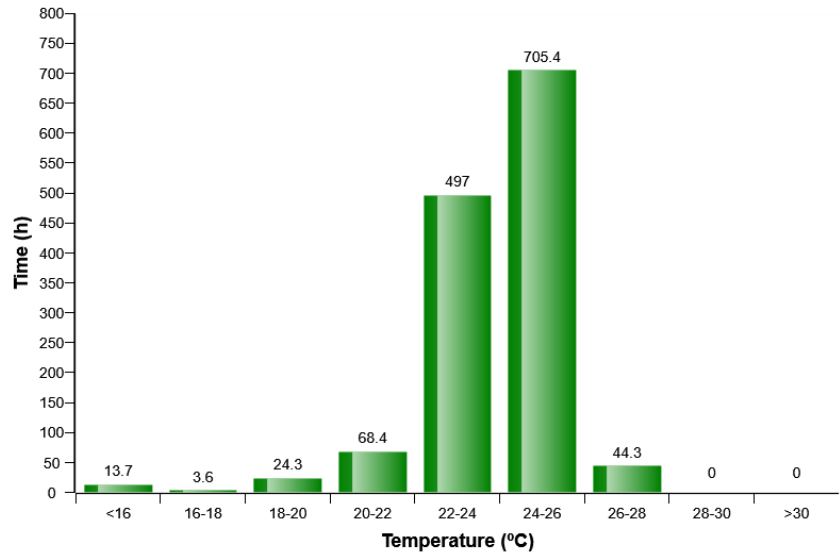
**Definition:**

The diagram describes auto-manual mode selection 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	341140	3804.8	30/05/2019

**HVAC air temperature setting in auto control mode distribution (h)**

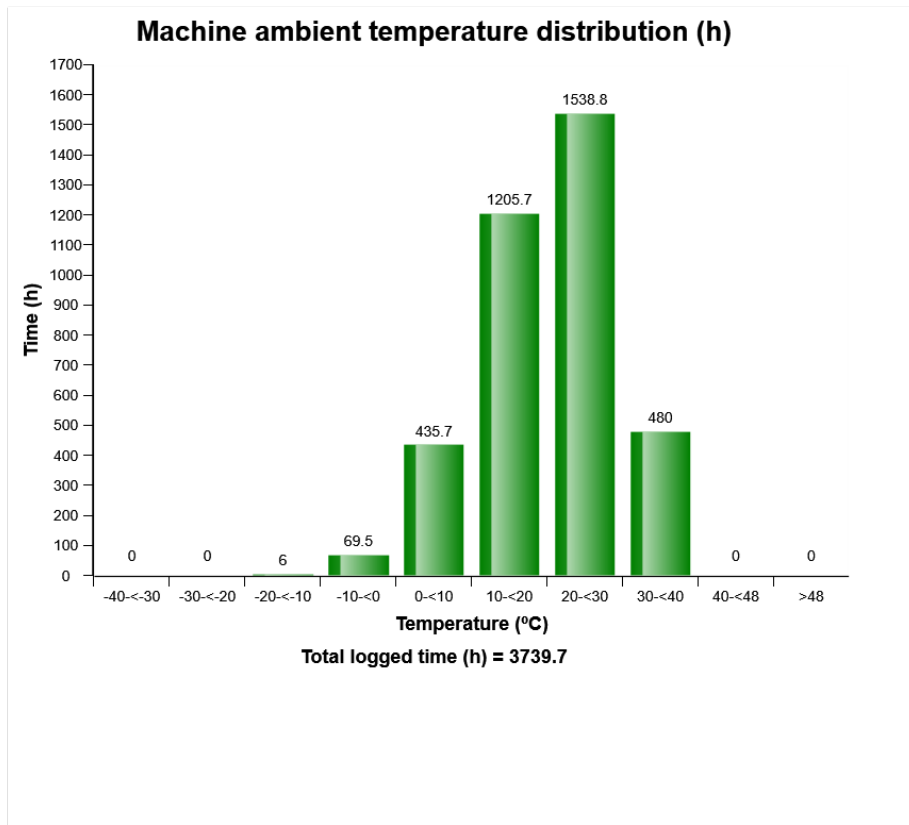


**Definition:**

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	341140	3804.8	30/05/2019



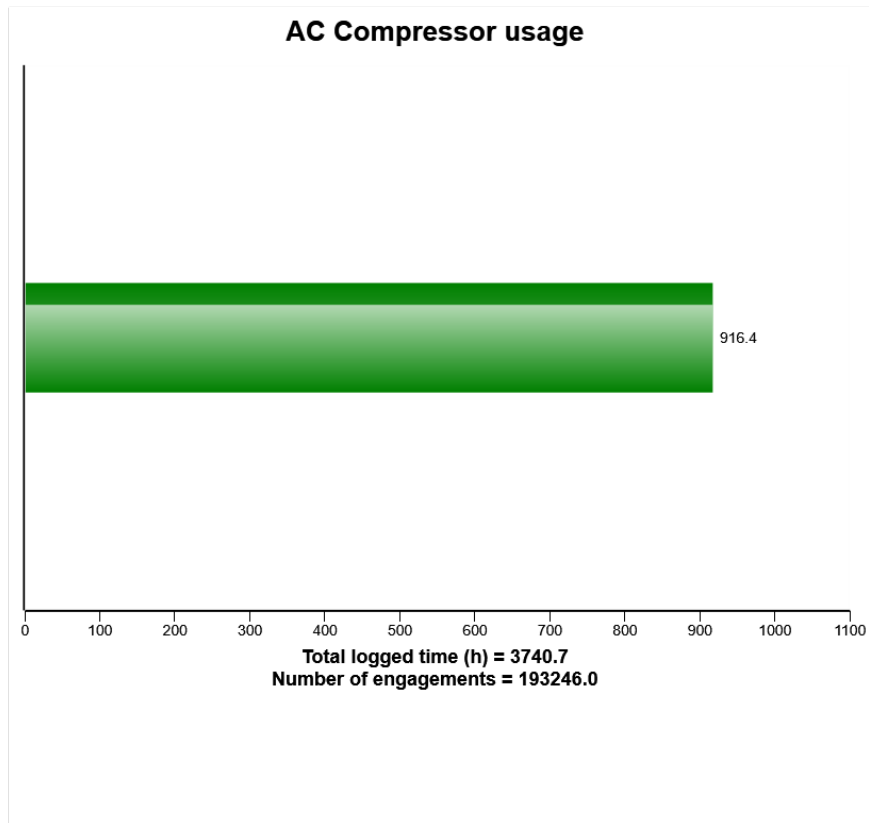
**Definition:**

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





Machine model	SerialNo	Operating Hours	Reading Date
A40G	341140	3804.8	30/05/2019



**Definition:**

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.

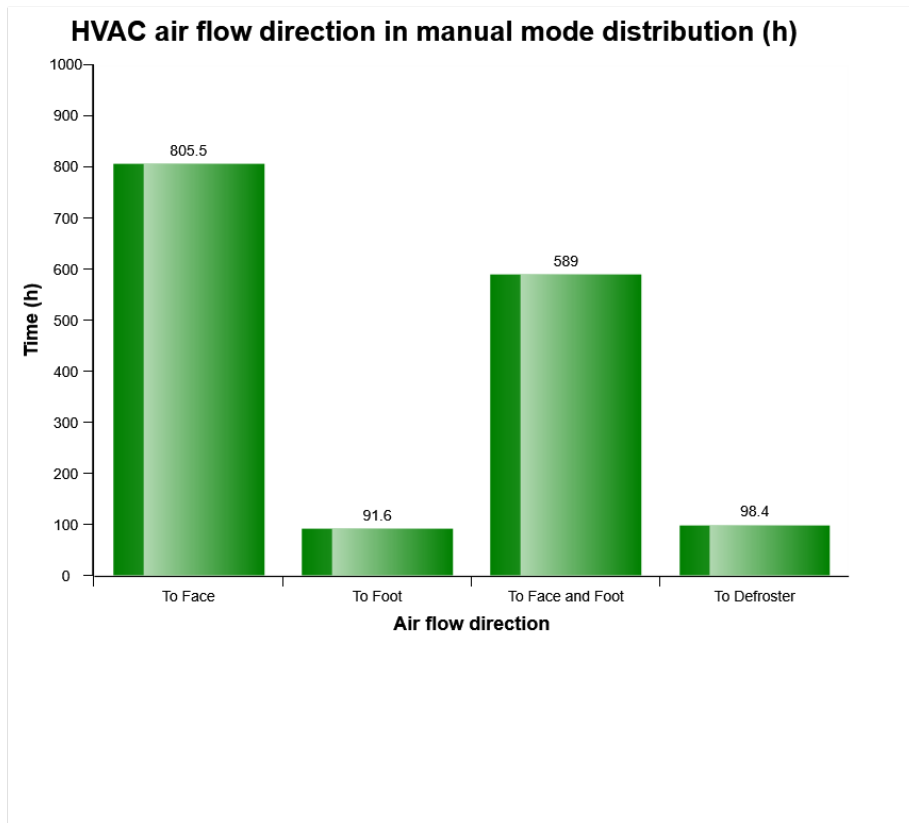
Total number of AC compressor activations is also displayed.



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341140	3804.8	30/05/2019



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341140	3804.8	30/05/2019

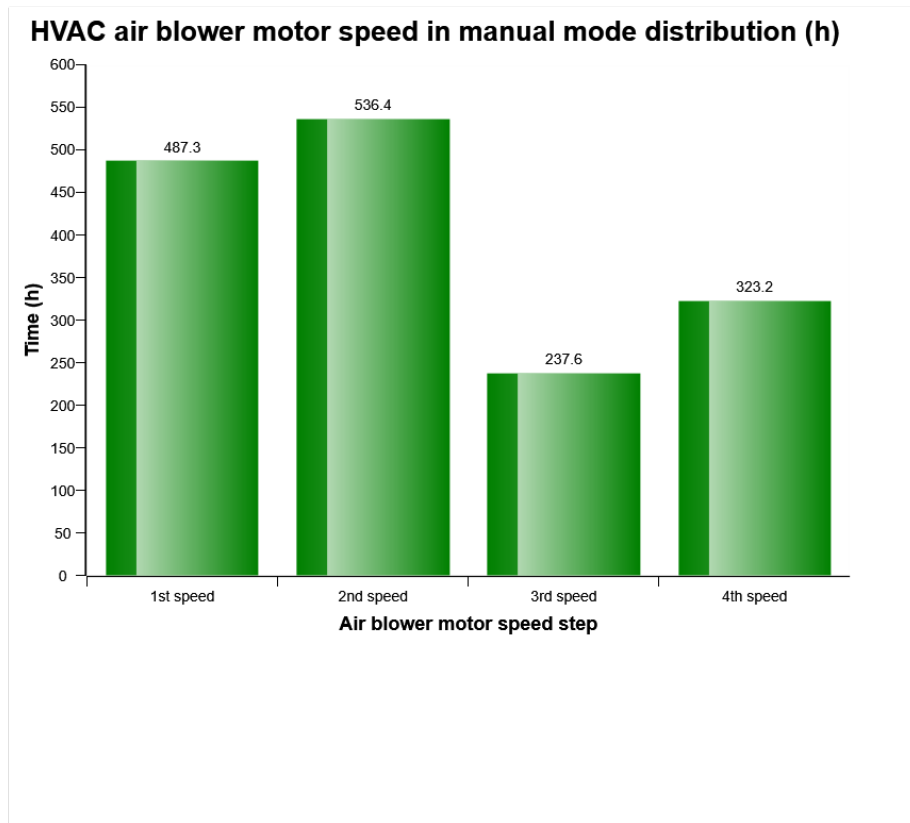


**Definition:**

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	341140	3804.8	30/05/2019



**Definition:**

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	341140	3804.8	30/05/2019

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	341140	3804.8	30/05/2019

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	341140	3804.8	30/05/2019

**AC System Cut Out Pressure**  
**Total number of occurrences = 18**

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
1	2255	10	23	5	56	26	10
1	2255	10	23	23	49	85	-1
2	2255	11	26	21	59	159	-1
2	2255	11	26	22	19	200	-3
2	2016	1	18	10	34	-1022550531	-5
1553	2016	12	10	7	51	842	-1
1572	2016	12	14	7	30	2894	-17
1582	2016	12	15	7	23	2952	-17
1592	2016	12	16	7	29	1529	-10
1602	2016	12	20	11	30	52	-2
1602	2000	11	16	20	53	242	0
1604	2000	11	20	18	44	1492	1
1613	2000	11	26	20	43	1735	-10
2259	2017	11	10	7	8	2177	1
2331	2017	12	12	9	7	1778	1
2336	2017	12	26	13	13	265	-16
2337	2017	12	28	8	41	3754	-16
2337	2001	10	19	22	29	118	-11

**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	341140	3804.8	30/05/2019

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 :**

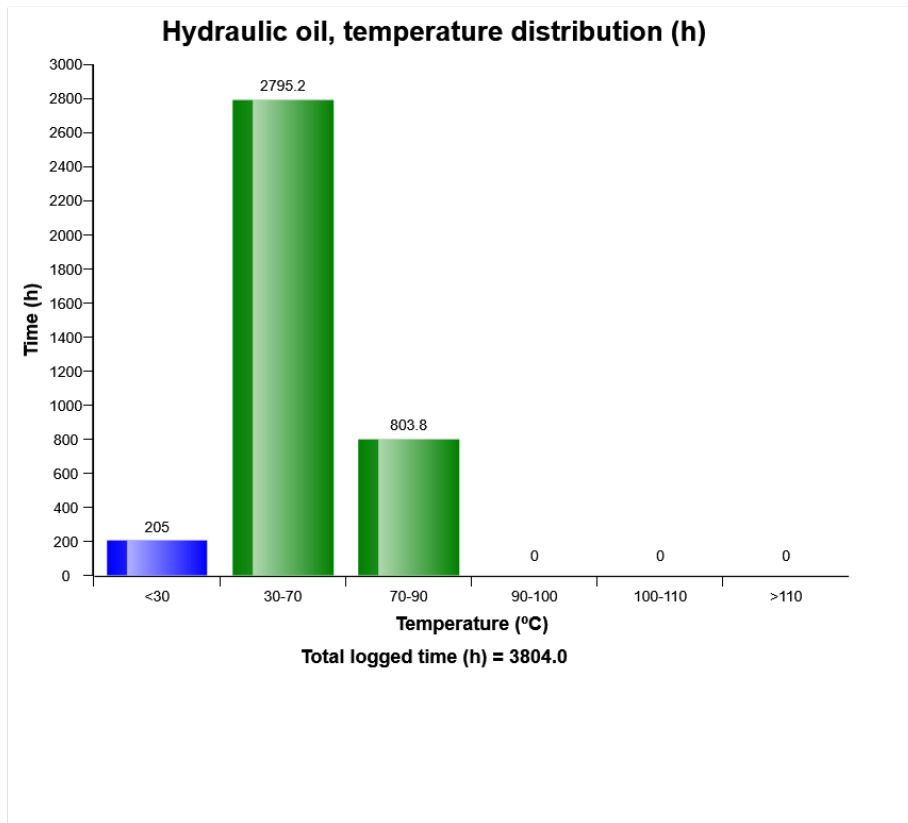
The extreme value column displays the most extreme value during the event.

**Criteria :**

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



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341140	3804.8	30/05/2019



**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
A40G	341140	3804.8	30/05/2019

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

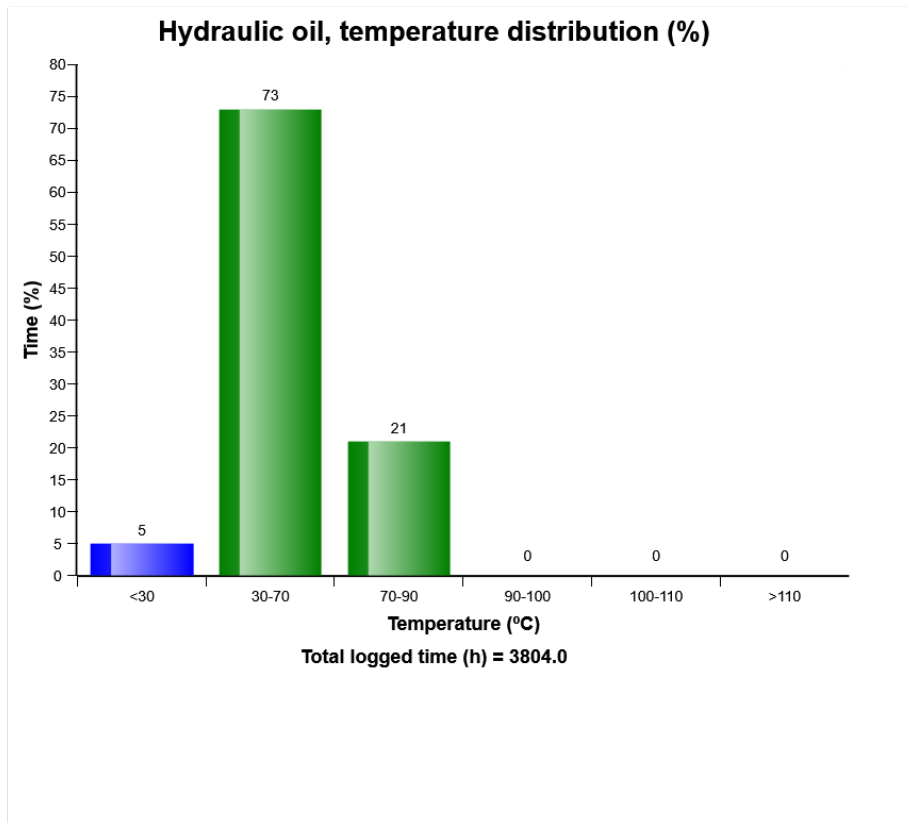
**Yellow bar** = High working temperature. It is normal to have some registrations in this region.

**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	341140	3804.8	30/05/2019



**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
A40G	341140	3804.8	30/05/2019

**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.

