VOLVO CONSTRUCTION EQUIPMENT

MATRIS REPORT

Machine model	SerialNo	Operating Hours	Reading Date
A40G	341614	4020.4	28/02/2020

Company name	Dealer	Report Issuer
Alta Equipment Company		
Contact name	**Technician**	**Primary Application**
	Anthony M	Earth moving construction
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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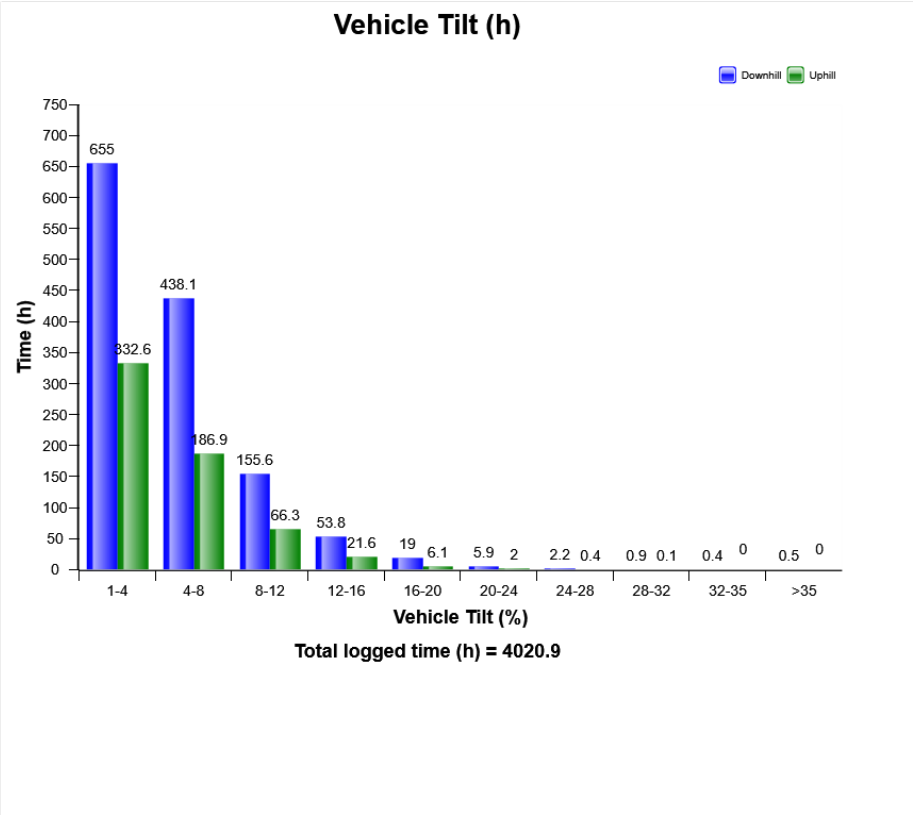

The diagram shows the distribution of the longitudinal tilt in percent (not degrees), the criteria to get registrations is that the vehicle speed exceeds 1km/h (0,62mph) and that the engine is on.

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Accumulated performance
Total logged time (h) =

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

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.

4020.9
114009.3
599531.5
149.1
5.3
0.2
16522
1.1
93.0

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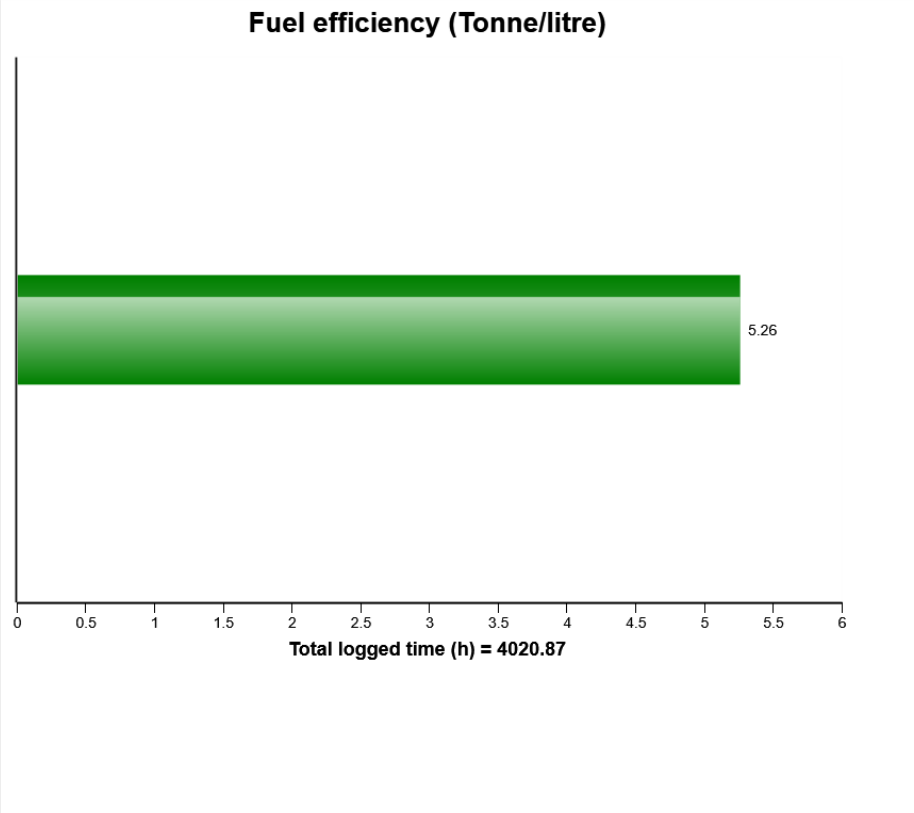

The presentation display the average produced tonne per fuel unit over the machines lifetime

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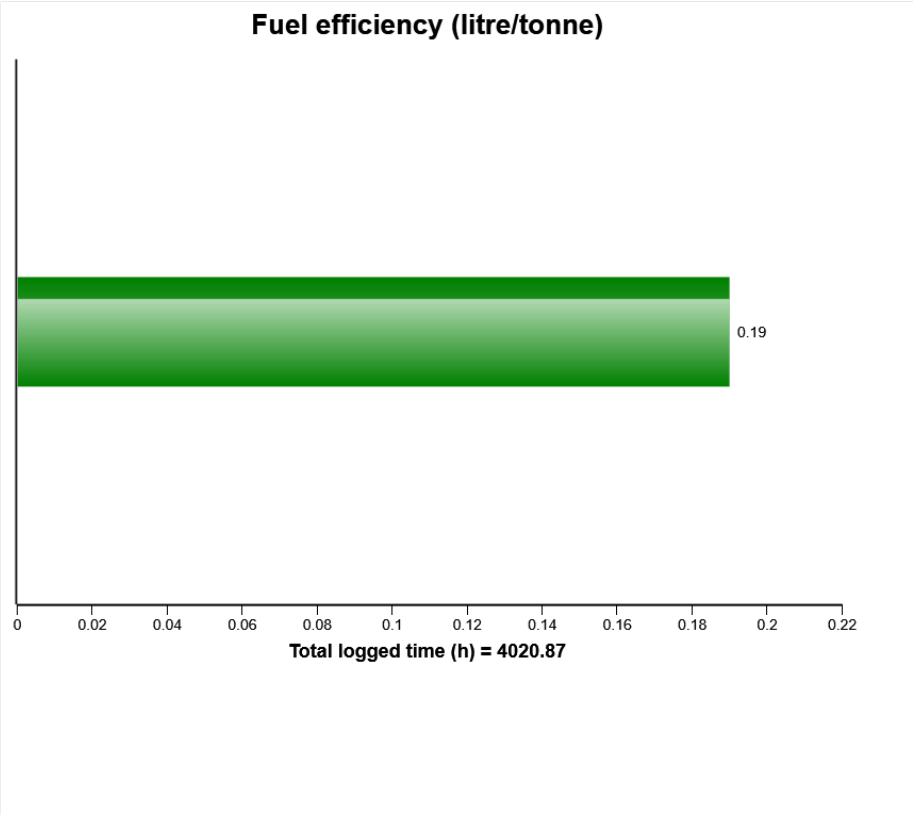

The presentation shows the average fuel consumption per tonne over the machines lifetime

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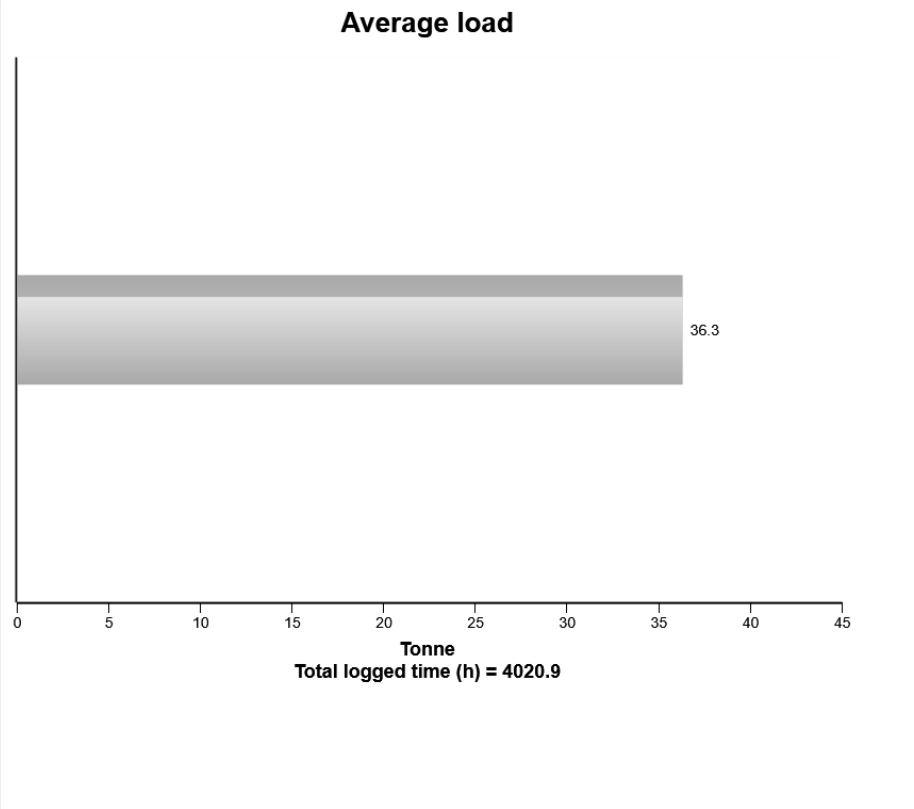

An error has occurred while processing HtmlTextBox 'htmlTextBox1':
'WordSection1' is an unexpected token. The expected token is "" or "". Line 1, position 18.

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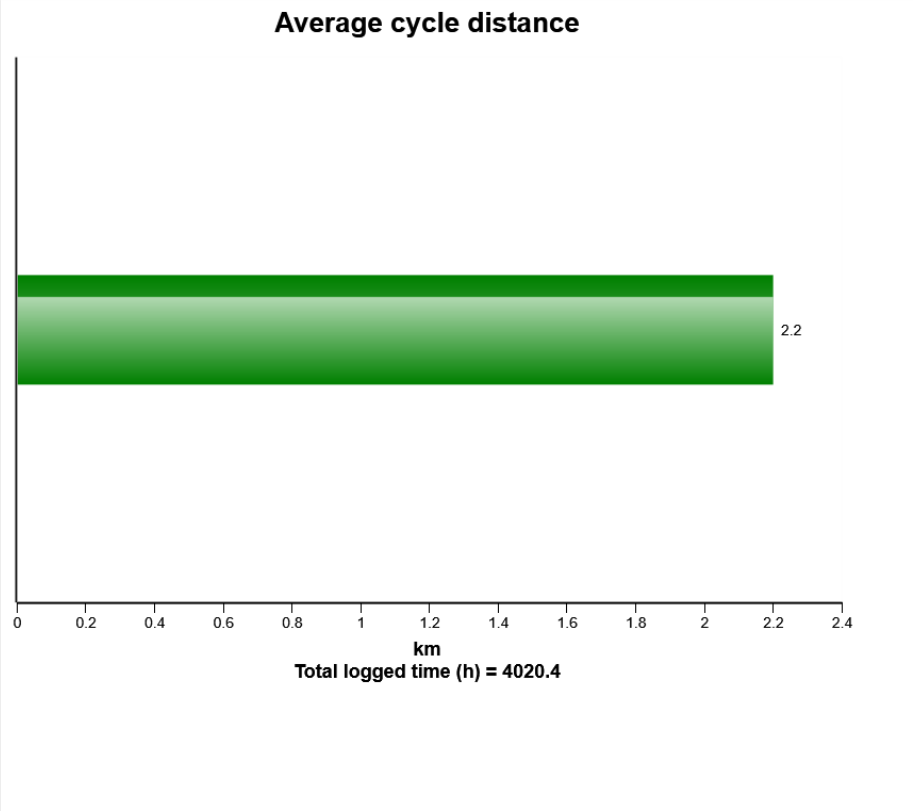

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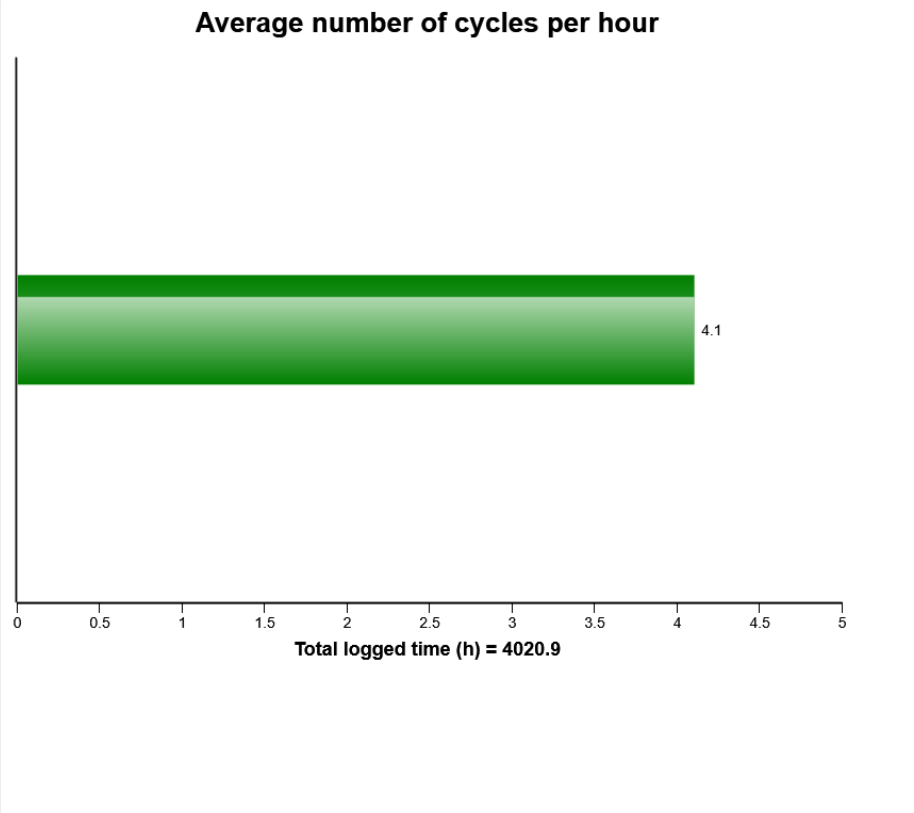

The presentation shows the average number of cycles per hour over the machines lifetime.

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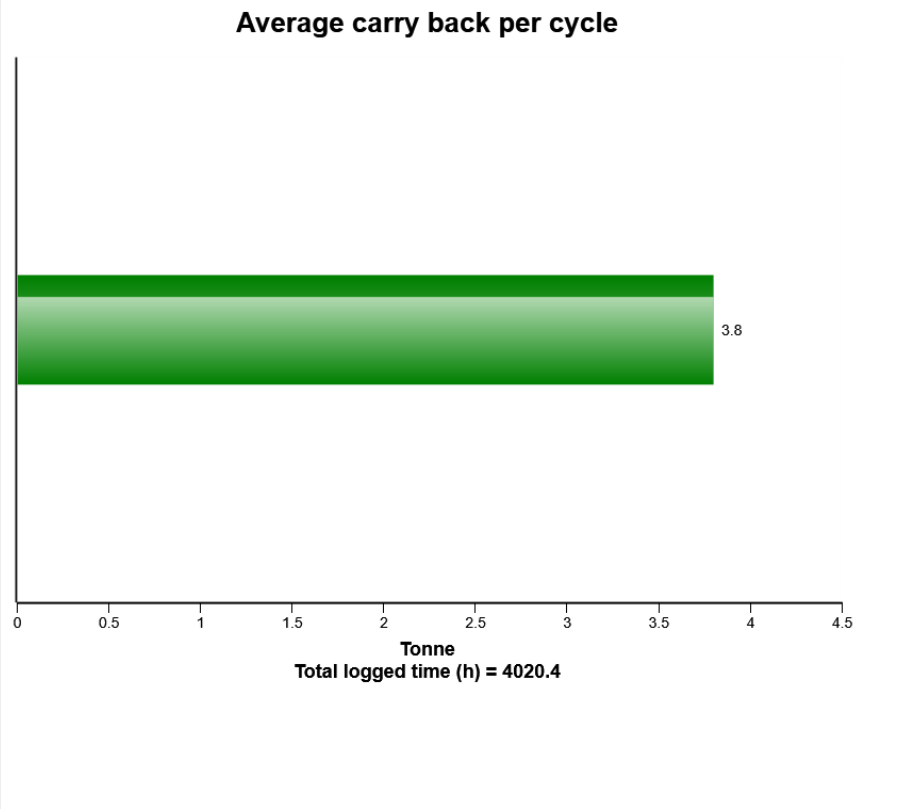

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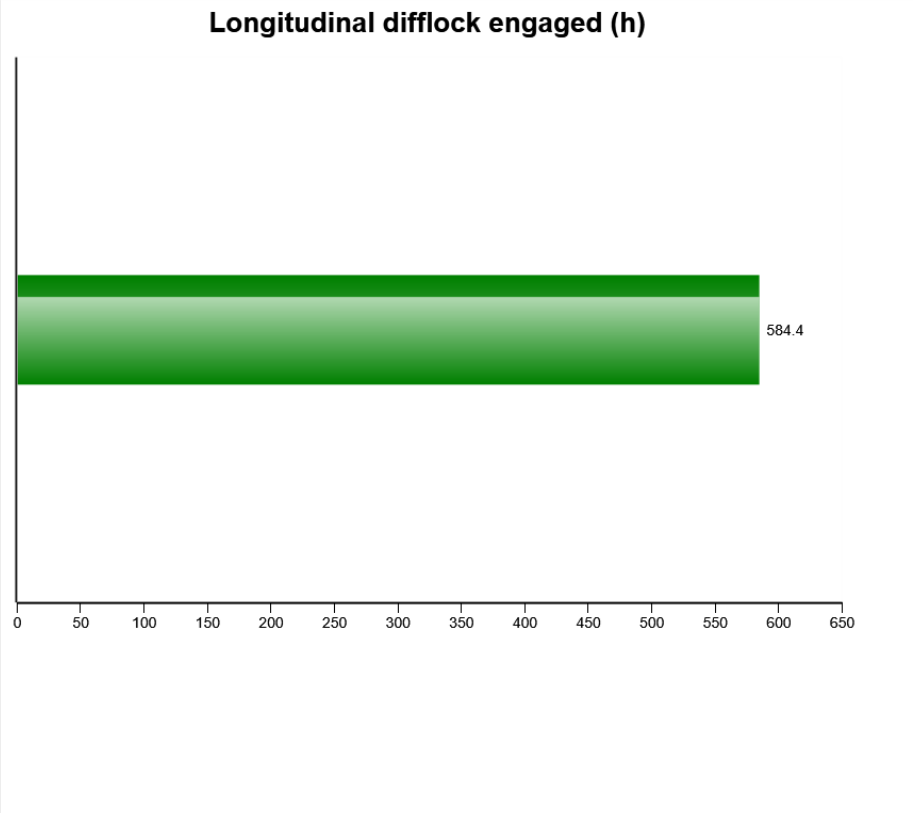

The diagram shows how long time in hours the longitudinal difflock has been engaged. The presentation only shows time when the machine is moving as this is when the wear on the difflock occurs. The difflock should always be disengage when not needed to avoid unnecessary wear.

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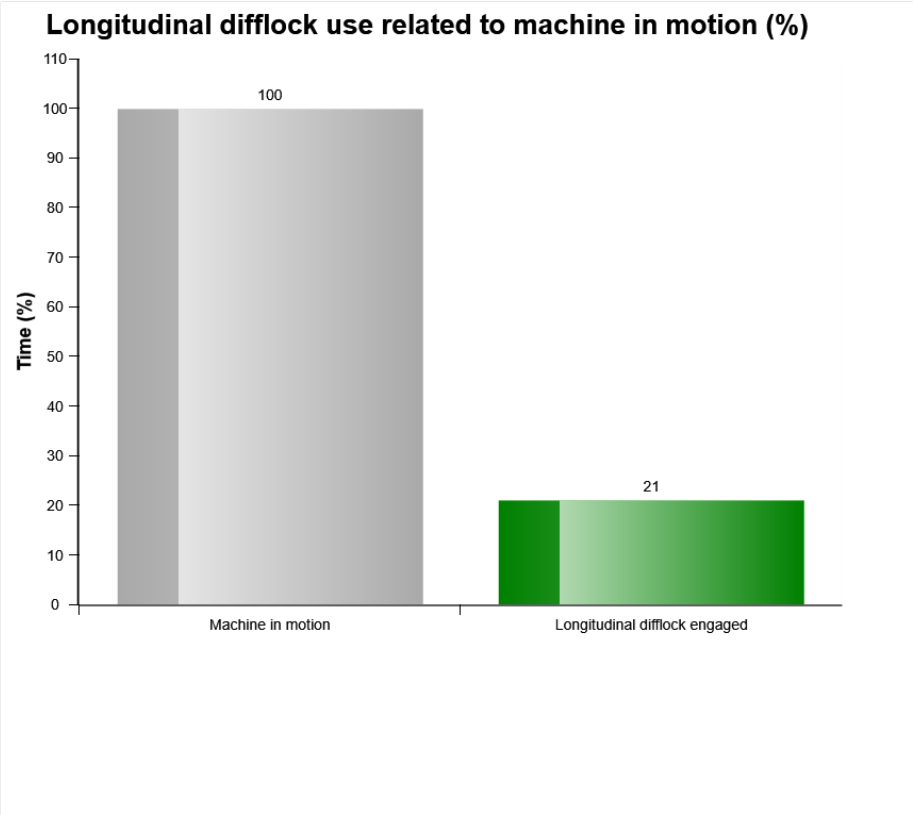

The diagram shows the percentage of engaged longitudinal difflock in relation to machine in motion.

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)"

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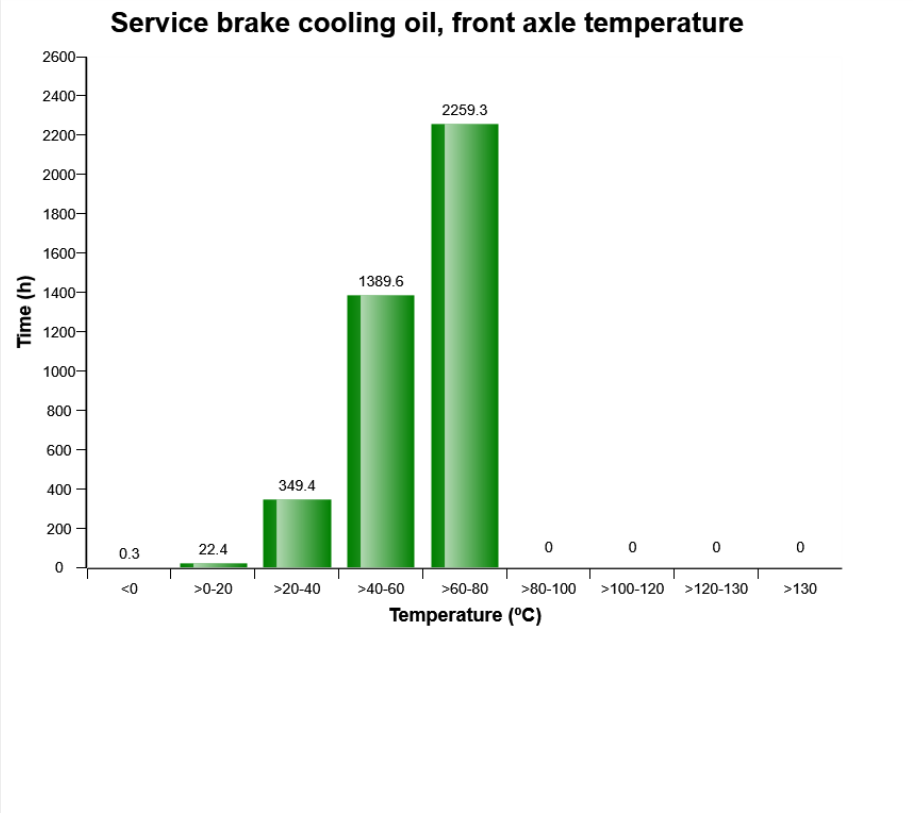

The diagram shows the front axle brake cooling oil temperature. The temperatures are divided into ranges, yellow bar (>120-130ºC) and red bar (>130ºC) shows abnormal temperatures. The temperature is registered in the line from the front axle to the oil cooler, that is, the warmest oil in the circuit.

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

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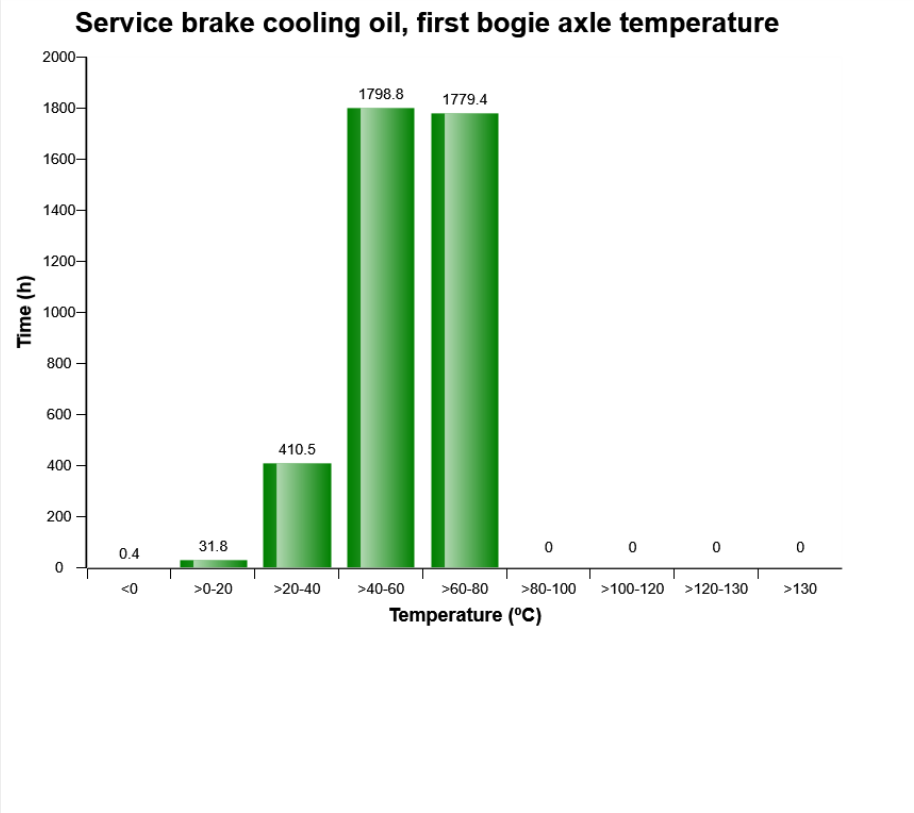

The diagram shows the first bogie axle brake cooling oil temperature. The temperatures are divided into ranges, yellow bar (>120-130ºC) and red bar (>130ºC) shows abnormal temperatures. The temperature is registered in the line from the first bogie axle to the oil cooler, that is, the warmest oil in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

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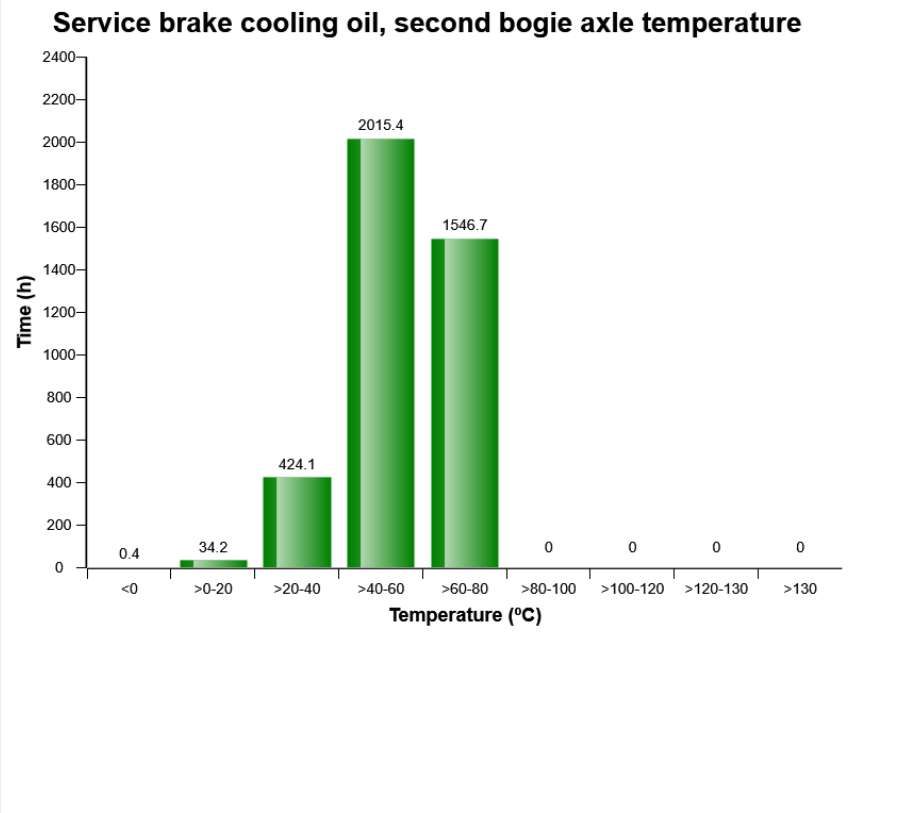

The diagram shows the Service brake cooling oil, second bogie axle temperature. The temperatures are divided into ranges, yellow bar (>120-130ºC) and red bar (>130ºC) shows abnormal temperatures. The temperature is registered in the line from the second bogie axle to the oil cooler, that is, the warmest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

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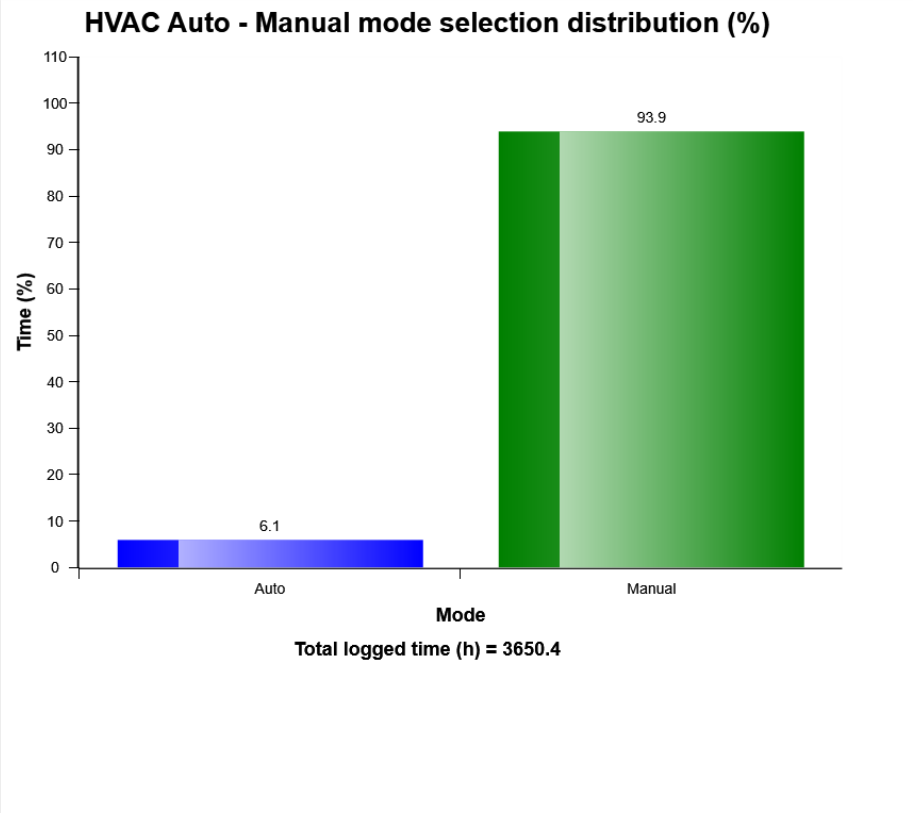

Definition:

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.

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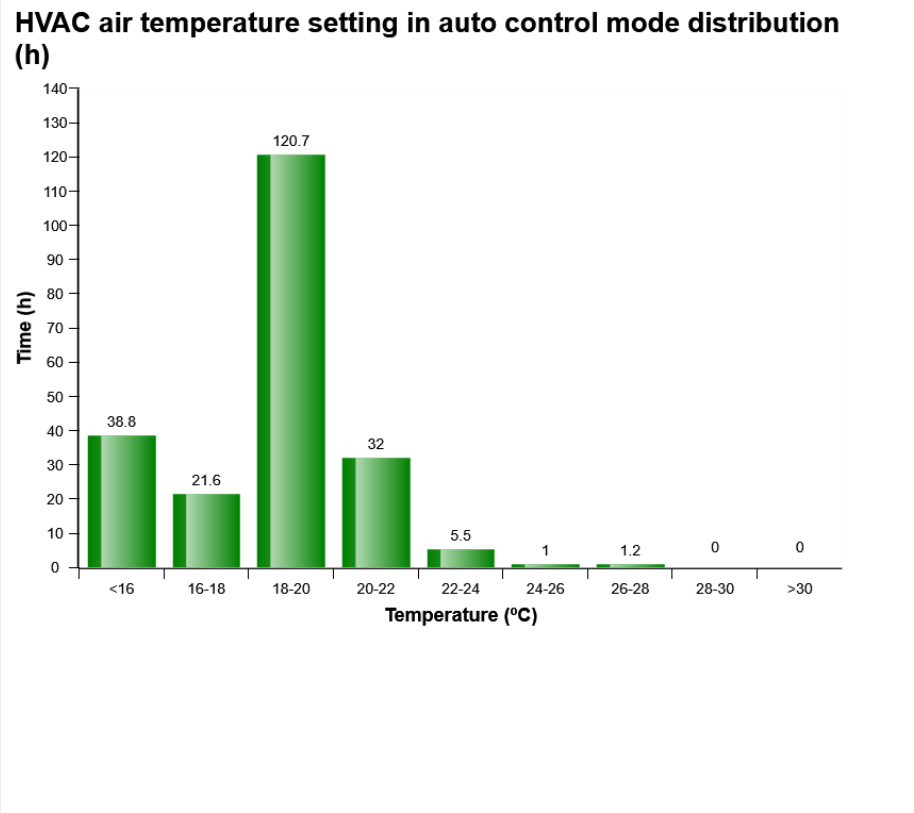

Definition:

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

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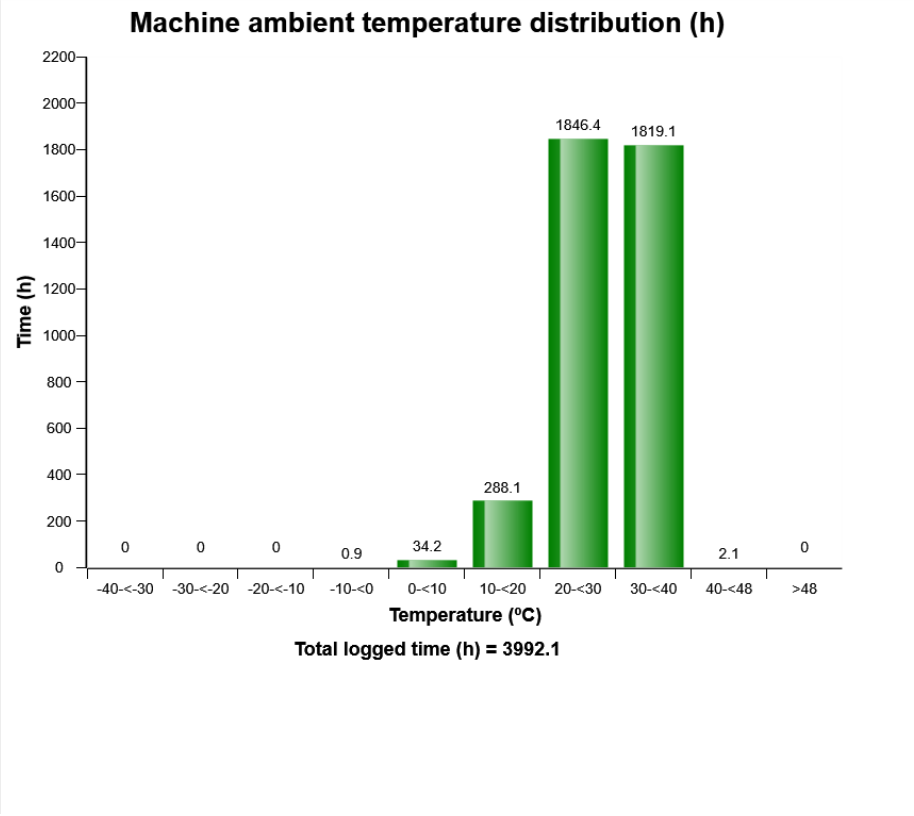

Definition:

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

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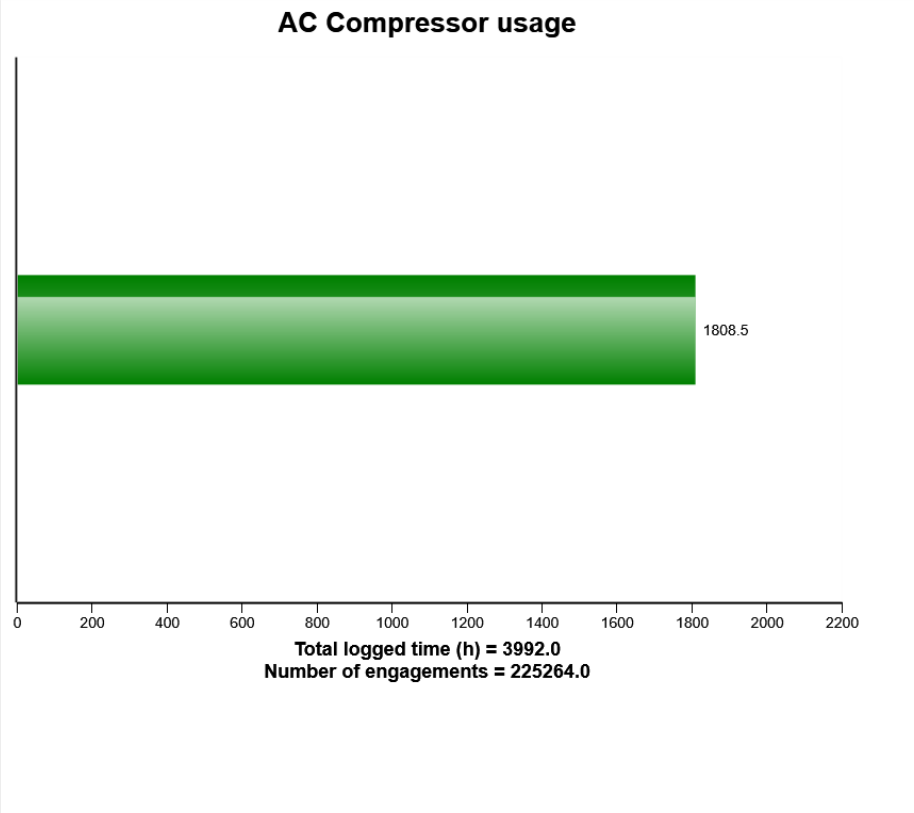

Definition:

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.

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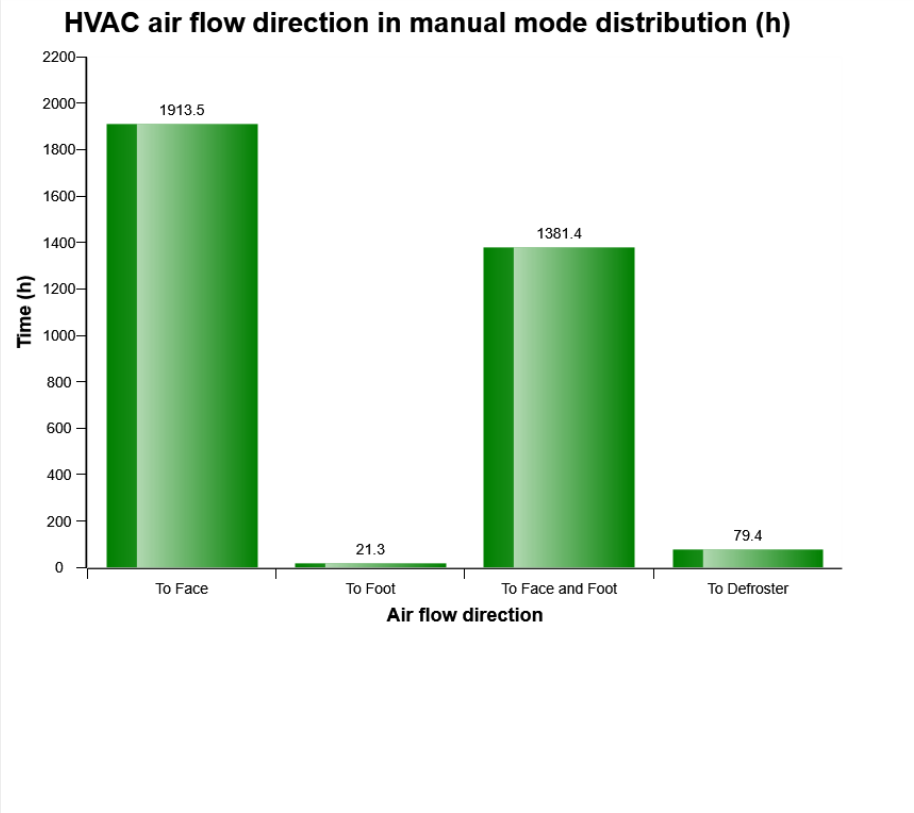

Definition:

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

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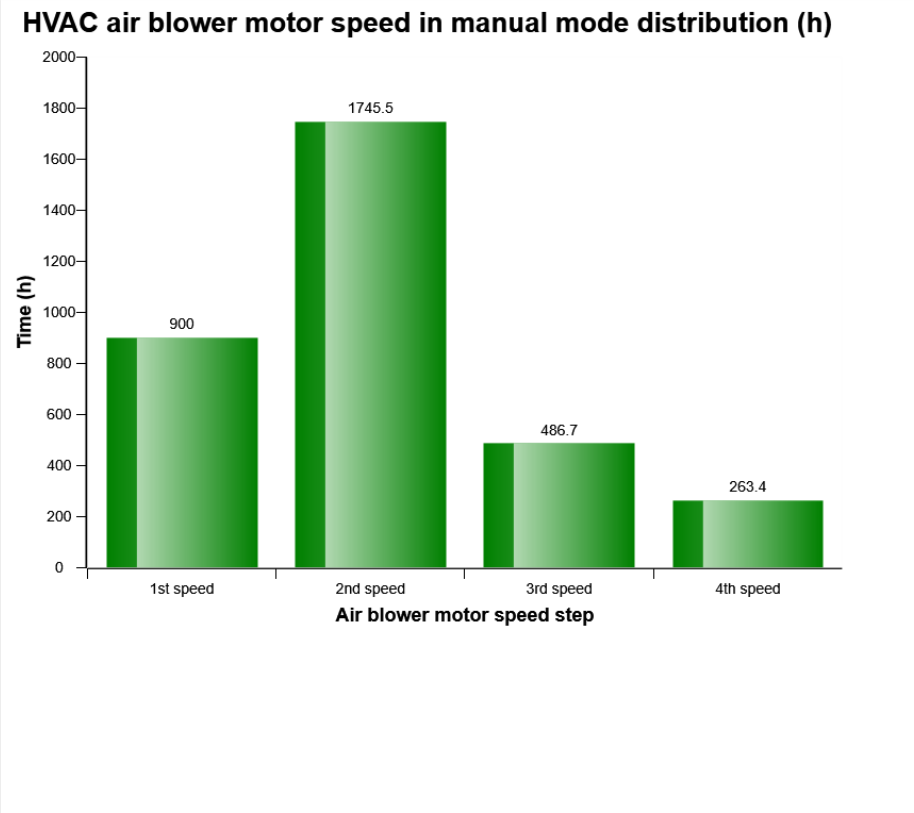

Definition:

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
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AC High Pressure
Total number of occurences = 38

Op hours	Year	Month	Day	Hour	Minute	Duration (sec)	Extreme (° C)
1453	2017	8	19	15	5	13	37
1469	2017	8	21	16	3	13	34
1470	2017	8	21	16	21	18	35
1471	2017	8	21	17	25	13	35
1471	2017	8	21	17	34	14	34
1531	2017	8	29	17	42	26	35
1948	2018	3	1	15	13	7	30
3093	2018	8	12	14	12	17	33
3094	2018	8	12	15	19	7	36
3105	2018	8	13	16	34	15	36
3106	2018	8	13	18	4	7	34
3125	2018	8	15	14	1	8	36
3316	2018	9	13	14	4	25	36
3437	2018	9	26	17	2	5	36
3628	2018	10	16	13	31	22	35
3630	2018	10	16	14	53	6	35
3639	2018	10	17	13	18	36	35
3661	2018	10	19	12	23	12	32
3709	2018	10	25	15	25	4	32
3796	2018	11	2	14	46	5	33

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.

Criteria：

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

Machine model	SerialNo	Operating Hours	Reading Date
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AC System Cut Out Pressure
Total number of occurences = 12

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
1346	2017	8	7	15	33	6	36
1346	2017	8	7	15	59	9	36
1347	2017	8	7	17	14	8	35
1349	2017	8	7	18	48	8	33
1356	2017	8	8	15	34	7	37
1357	2017	8	8	16	3	12	36
1359	2017	8	8	18	8	6	35
1415	2017	8	15	16	34	9	36
1445	2017	8	18	16	53	5	36
1453	2017	8	19	15	6	5	37
1471	2017	8	21	17	25	6	35
3639	2018	10	17	13	18	27	35

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