

VOLVO CONSTRUCTION EQUIPMENT MATRIS REPORT

Machine model EC220E	SerialNo 310492	Operating Hours 2906.7	Reading Date 19/08/2019
Company name volvo	Dealer	Report Issuer	
Contact name	Technician arnold	Primary Application Building	
Site	Workorder	Ground Condition	

MATRIS Reading, Summary / Recommendation

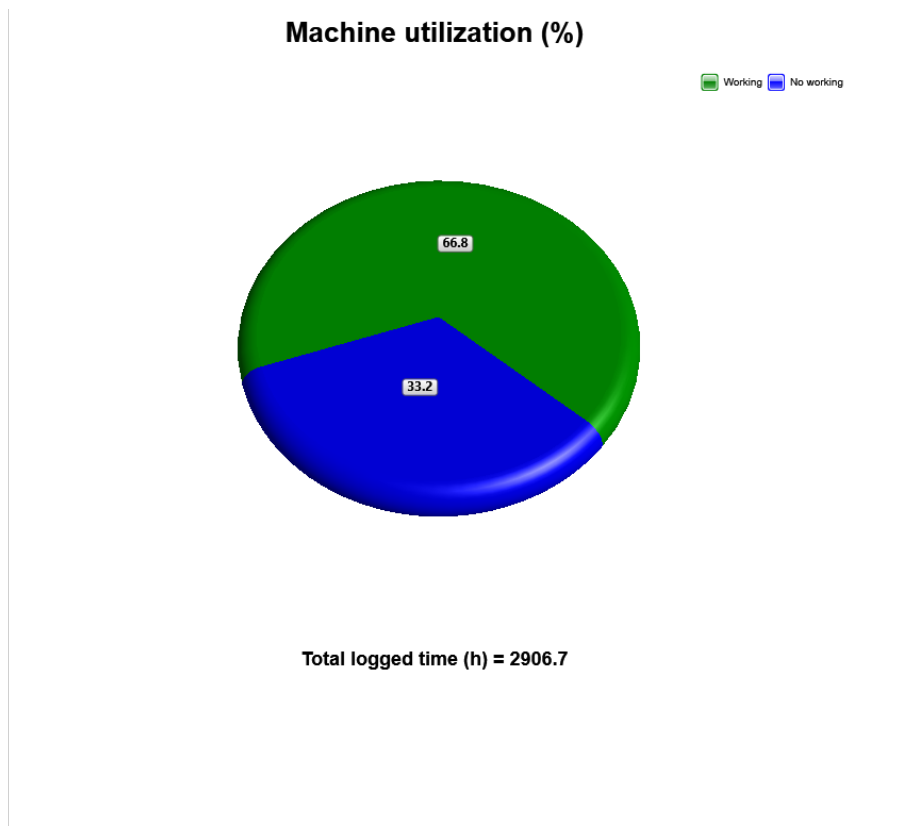


Machine model	SerialNo	Operating Hours	Reading Date
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Main equipment	Type	Equipment
	Track chain	
	Hydraulic Fluid	
	Bucket size	
	X3 piping	
	Main Attachment	



Machine model	SerialNo	Operating Hours	Reading Date
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Definition:

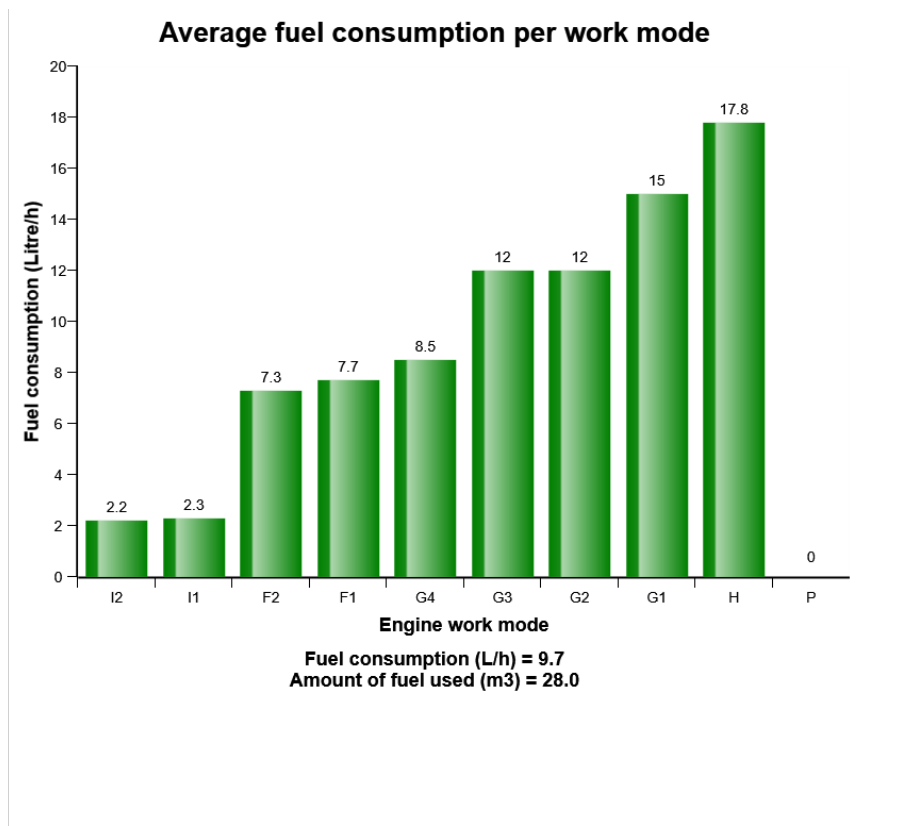
The graph shows the distribution of the operating time for the machine. The operating time is defined as the time with engine on

Blue sector = Engine is running, but attachments and tracks are not moved or operated .

Green sector = Machine in work with the move of attachments and tracks



Machine model	SerialNo	Operating Hours	Reading Date
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Definition:

This diagram shows the fuel consumption distribution rate on each work mode.

Distribution of each work mode is shown on top of its column in rate

Explanation:

Y-axis: The rate of the fuel consumption on each work mode.

X-axis: The work mode (10 steps in total)

Distribution of each work mode is shown on top of its column in rate

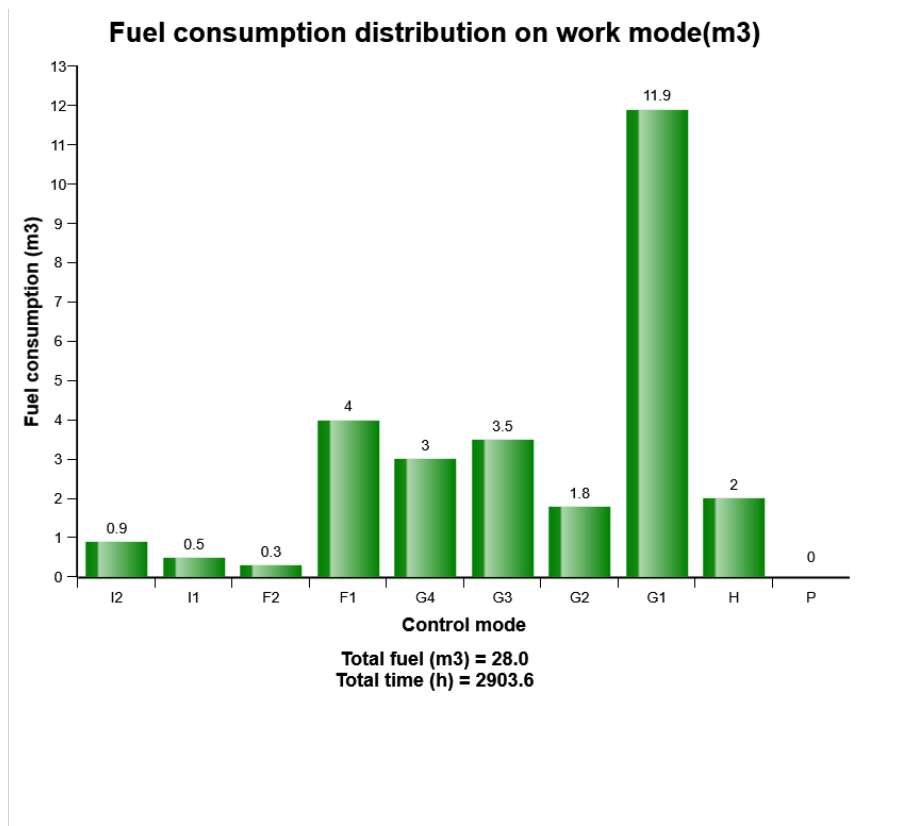


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Average fuel consumption per hour is listed below the diagram



Machine model	SerialNo	Operating Hours	Reading Date
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Definition:

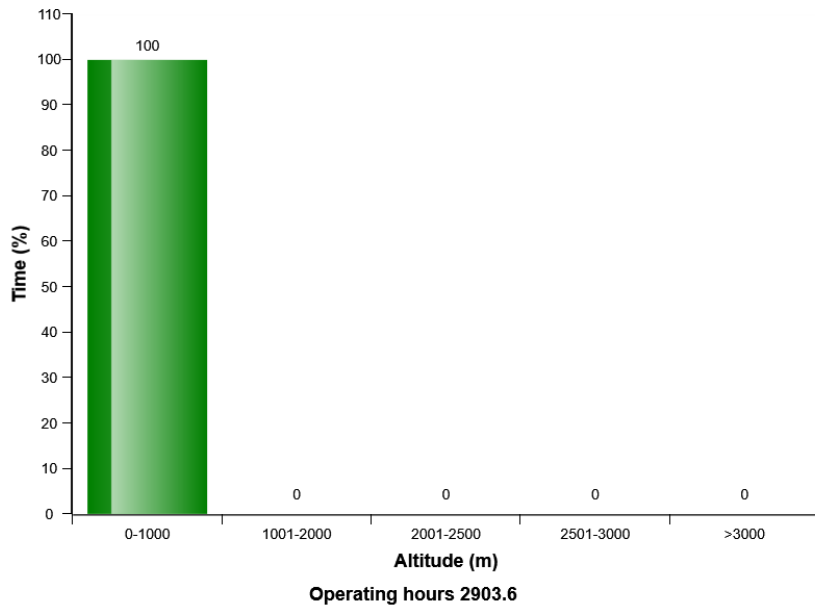
The diagram describes the amount of fuel consumed per engine speed mode distribution.

Total amount of fuel consumed (m3) in above means that the sum of the fuel while it consumed for engine ON. The values above distribution were calculated from theoretical calculation with logged data in V-ECU so it can be some different from actual performance in field.

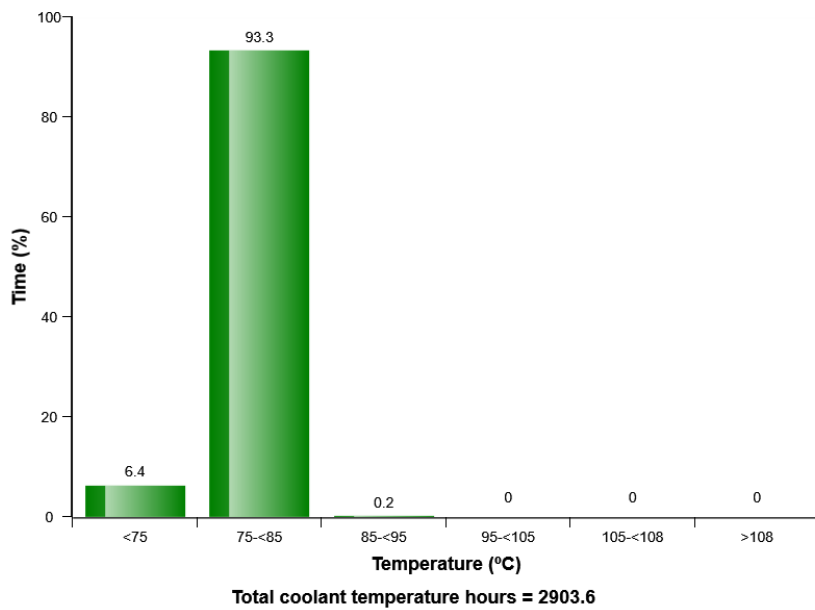


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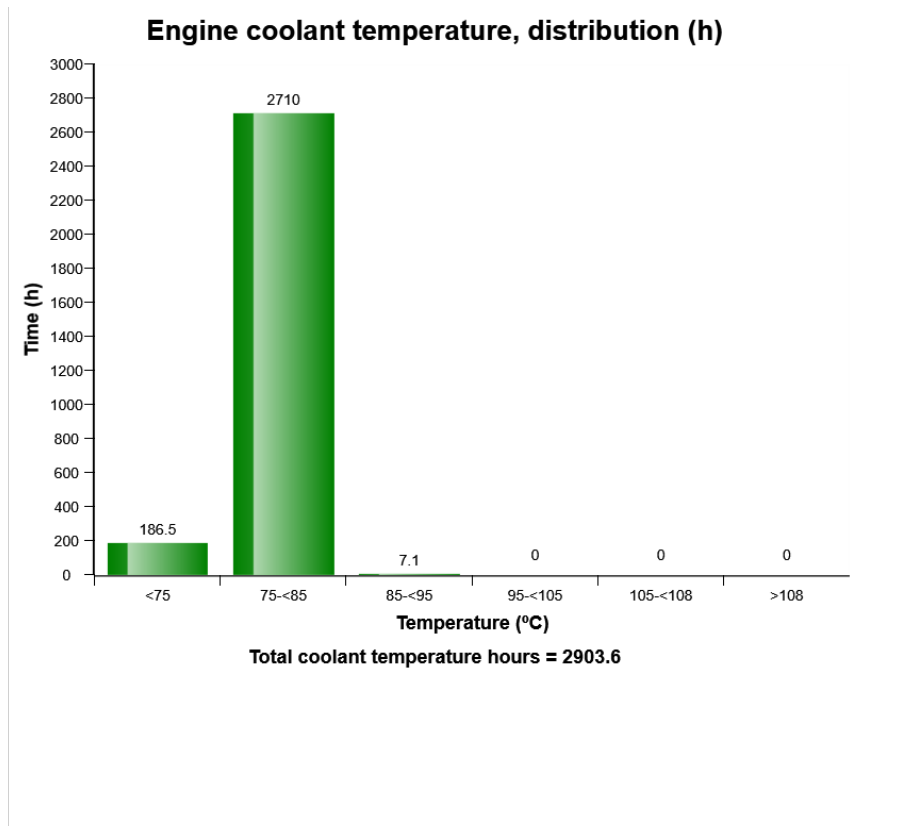
Altitude distribution



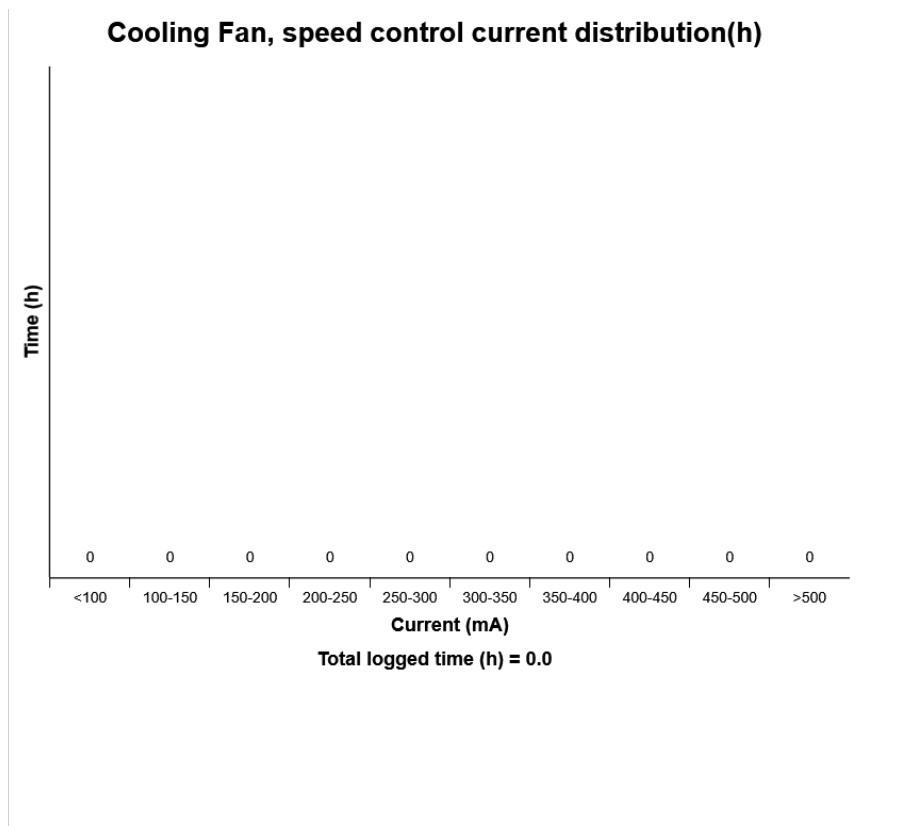
Engine coolant temperature, distribution (%)



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Definition:

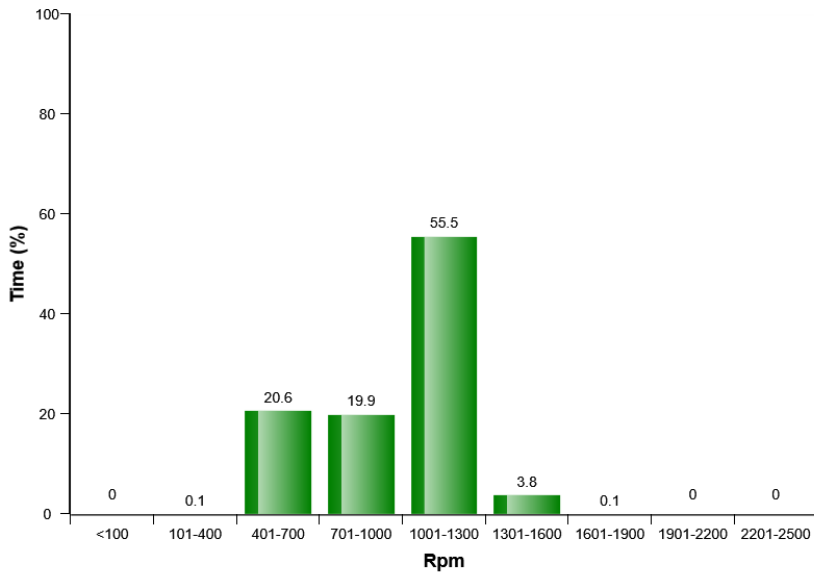
The diagram describes Hydraulic Cooling fan speed control, Current (mA) distribution, on fan speed Control..

Total time (hours) in above means the sum of the time for Hydraulic Cooling fan operation.



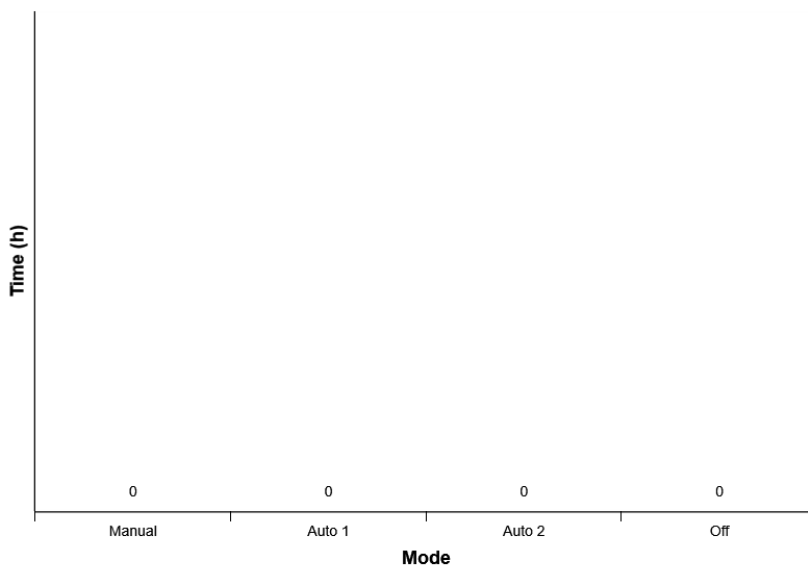
Machine model	SerialNo	Operating Hours	Reading Date
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Cooling fan (clutch type) speed distribution (%)



Total cooling fan operating hours = 2906.7

Cooling fan, Mode distribution (h)

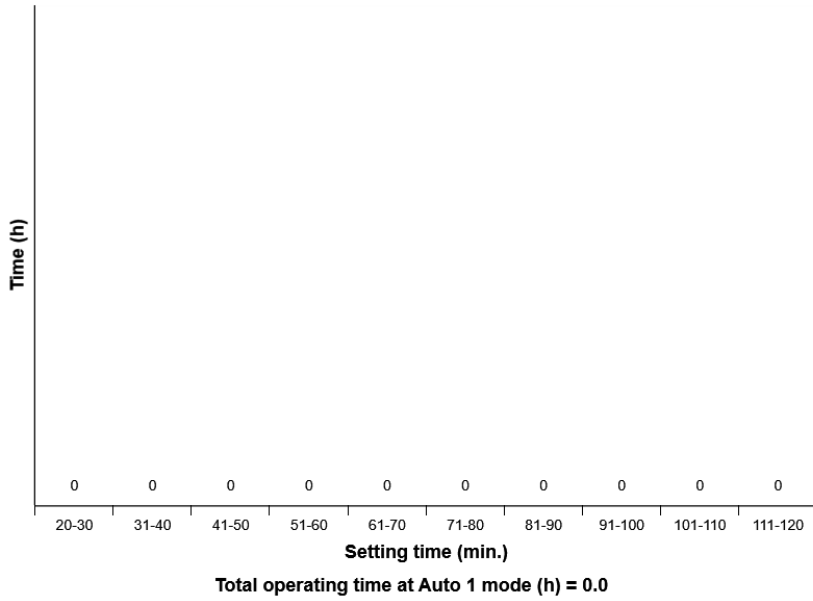


Operating hours 0.0

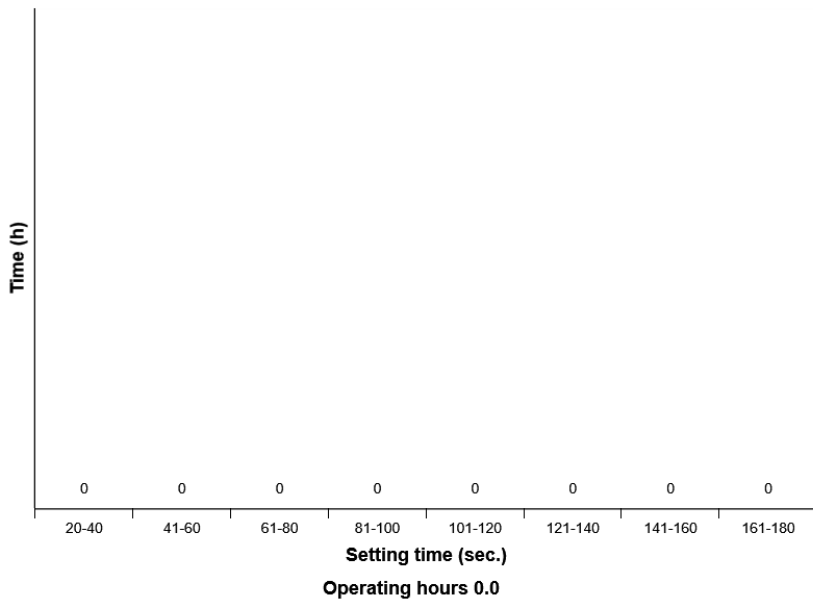


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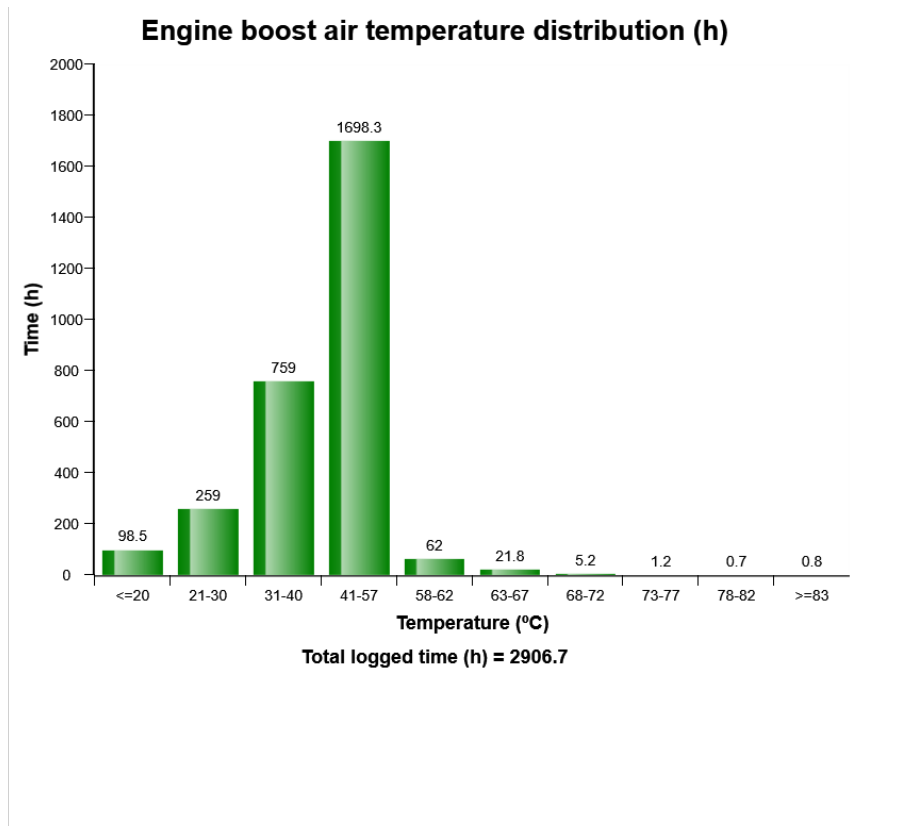
Reverisble fan, Time setting distribution (h) at Auto 1 mode



Reversible fan, Time setting distribution (h) at Manual mode



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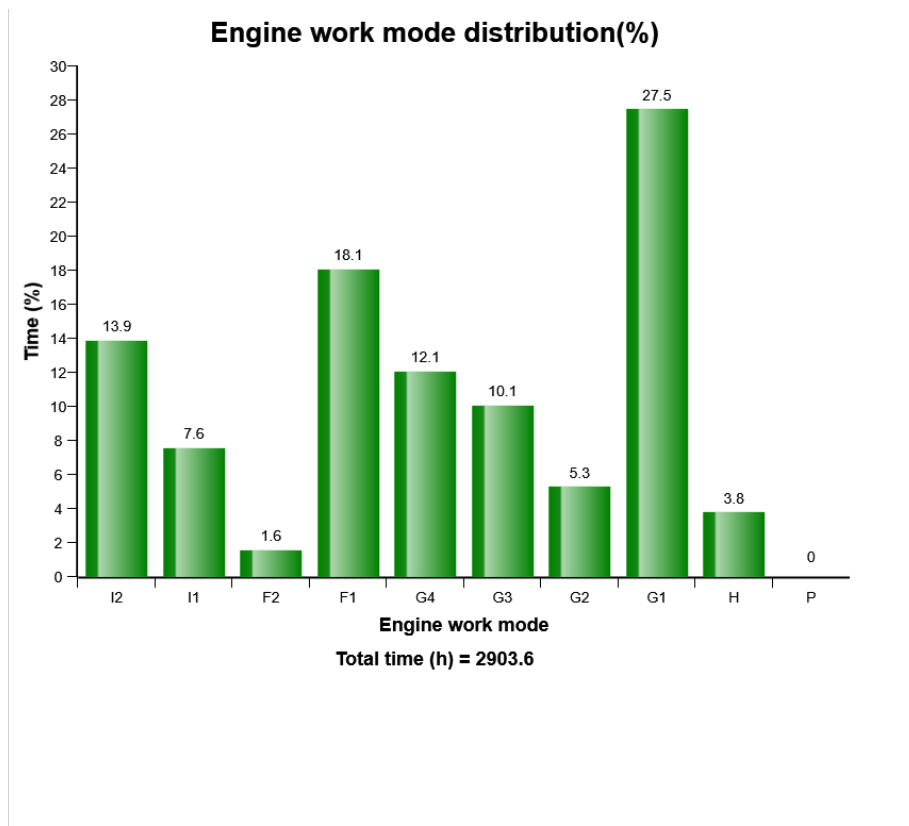


Definition:

The diagram describes Engine boost air temperature distribution of the machine when the engine is on.



Machine model	SerialNo	Operating Hours	Reading Date
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Definition:

This diagram shows the distribution of the engine work mode in time percent.

Distribution of each work mode is shown on top of the column in percentage.

Explanation:

Y-axis: The percentage of the operating hours on each work mode.

X-axis: The engine work mode (10 step in total)

Distribution of each work mode is shown on top of the column in percentage.



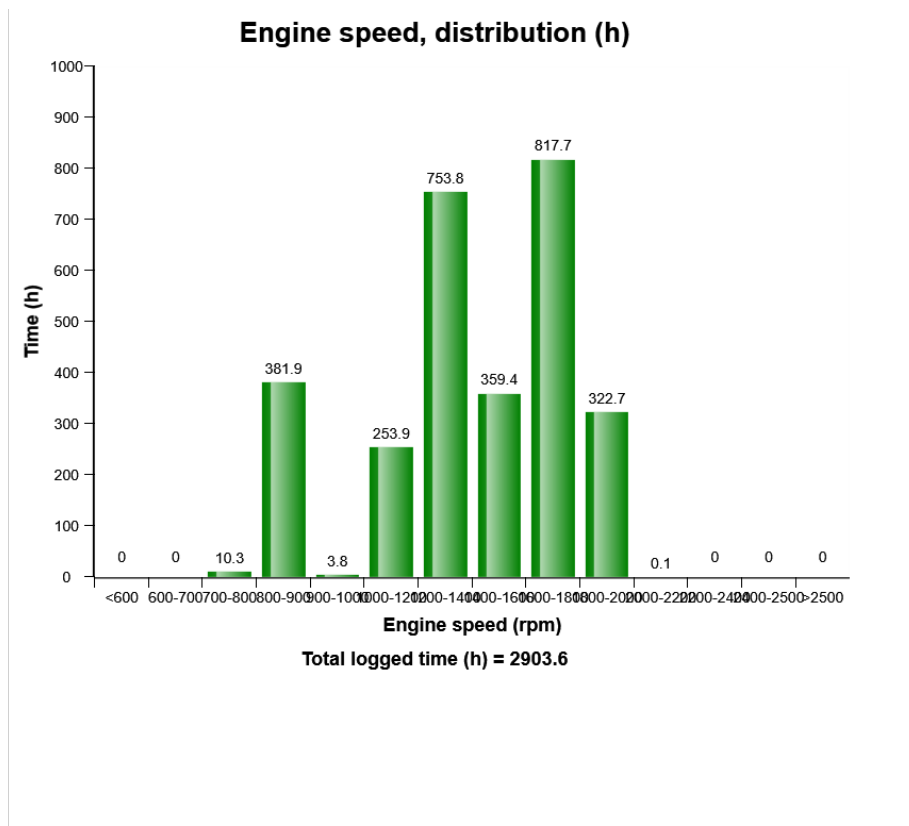
Machine model	SerialNo	Operating Hours	Reading Date
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The sum of time distribution in percentage is 100

Total time (h) is listed below the diagram



Machine model	SerialNo	Operating Hours	Reading Date
EC220E	310492	2906.7	19/08/2019



Definition:

The graph describes the engine speed distribution, in hours.

The sum of all bars = total time of engine running.

Explanation:

Y-axis: Engine running time in hours.

X-axis: Engine speed in rpm.

Green bars = Normal engine speed range.

Red bars =The engine speed has exceeded the maximum design speed.

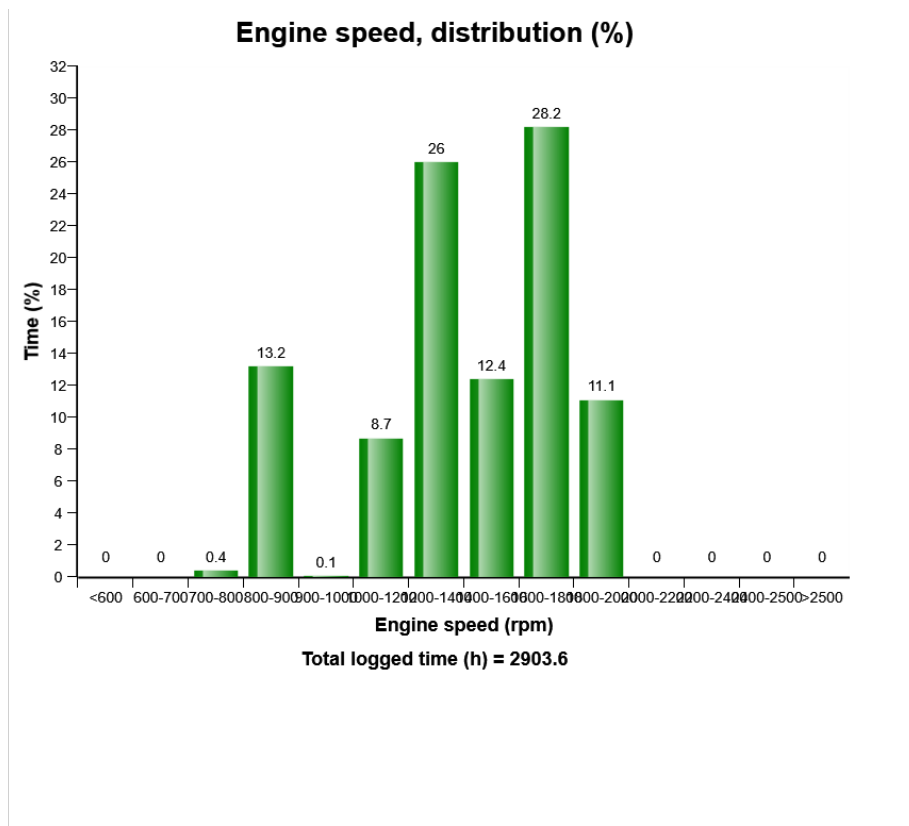


Machine model	SerialNo	Operating Hours	Reading Date
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Exceeding the maximum design speed may cause severe damage to the engine.



Machine model	SerialNo	Operating Hours	Reading Date
EC220E	310492	2906.7	19/08/2019



Definition:

The graph describes the engine speed distribution in percent of time.

The sum of all bars=100% of engine running time.

Explanation:

Y-axis: Engine running time in percent.

X-axis: Engine speed in rpm.

Green bars = Normal engine speed range

Blue bar = Idling interval.



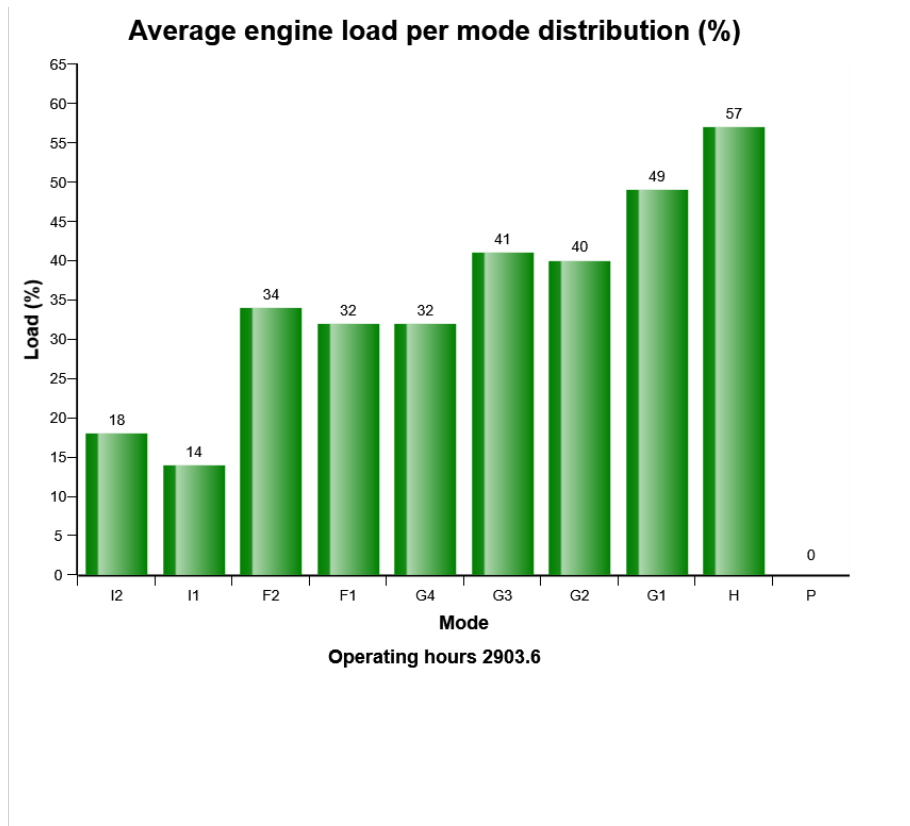
Machine model	SerialNo	Operating Hours	Reading Date
EC220E	310492	2906.7	19/08/2019

Red bars =The engine speed has exceeded the maximum design speed.

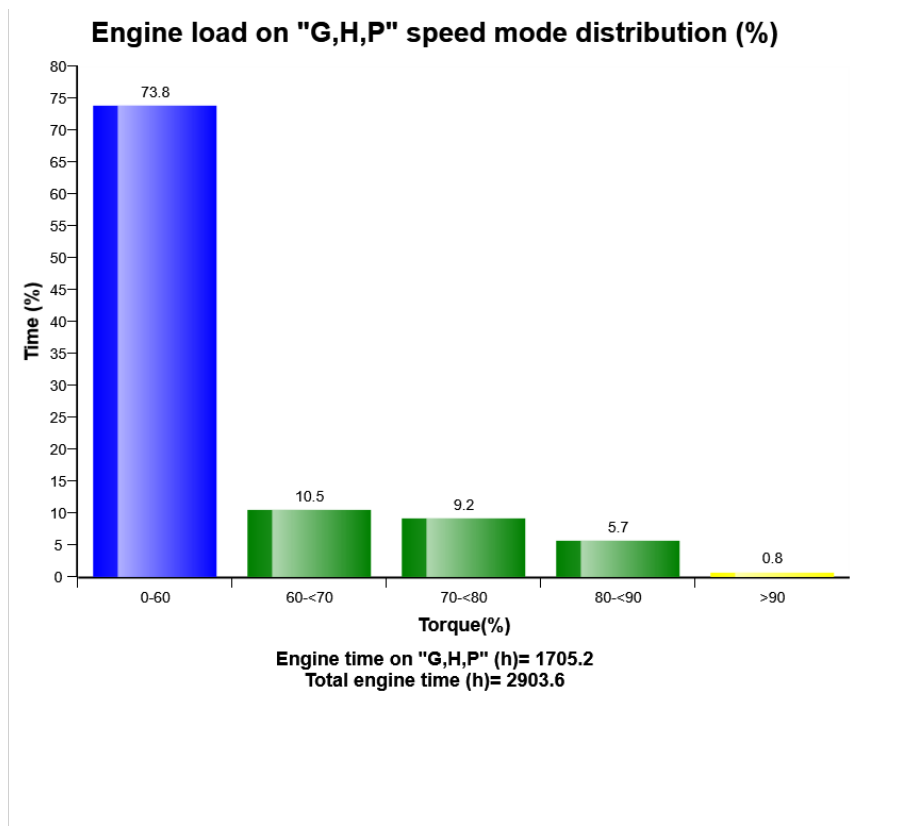
Exceeding the maximum design speed may cause severe damage to the engine



Machine model	SerialNo	Operating Hours	Reading Date
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Machine model	SerialNo	Operating Hours	Reading Date
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This graph shows the distribution of the engine load.

Blue bar: Low load

Green bar: Normal load

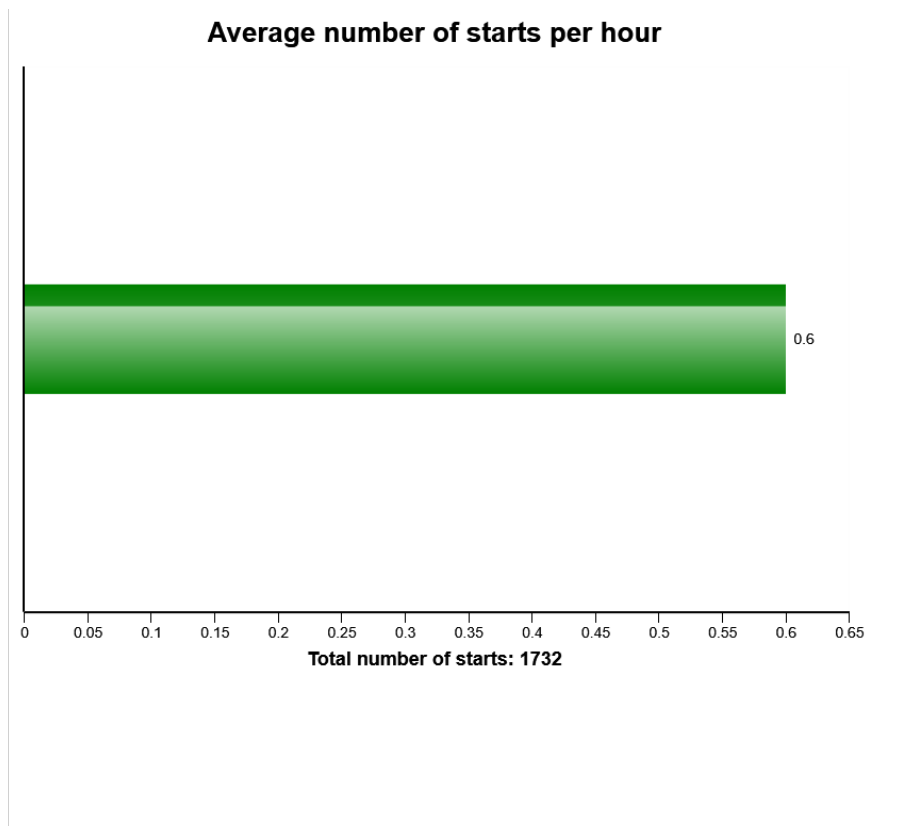
Yellow bar: Excessive load

Load 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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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."

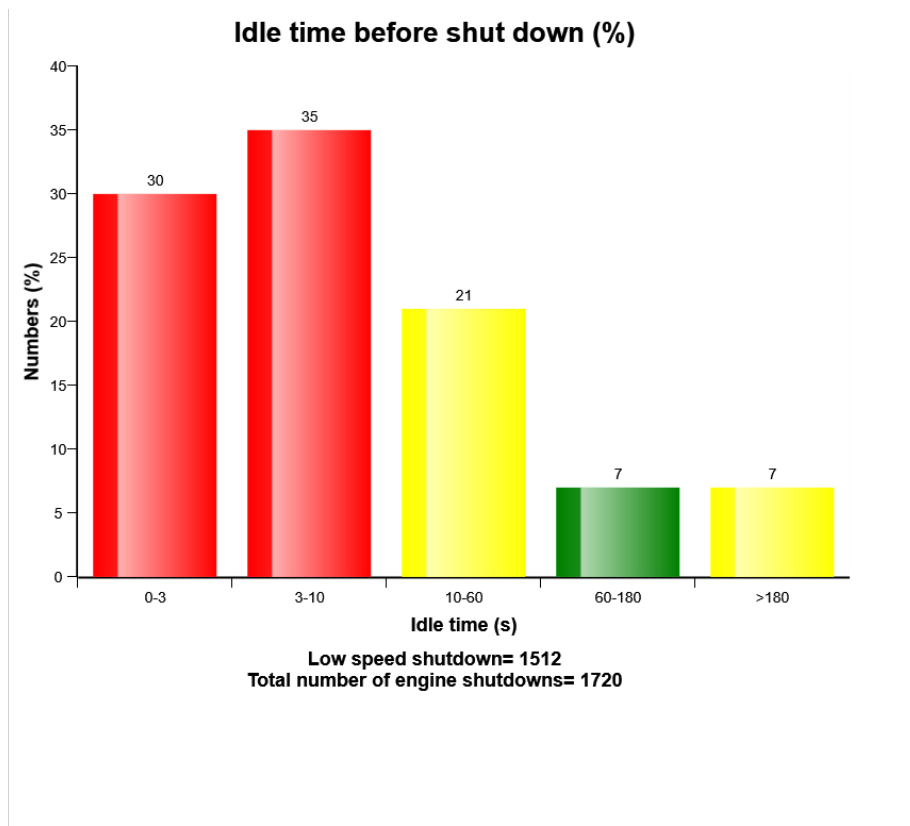


Machine model	SerialNo	Operating Hours	Reading Date
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Green bar = Number of average starts per hour



Machine model	SerialNo	Operating Hours	Reading Date
EC220E	310492	2906.7	19/08/2019



Definition:

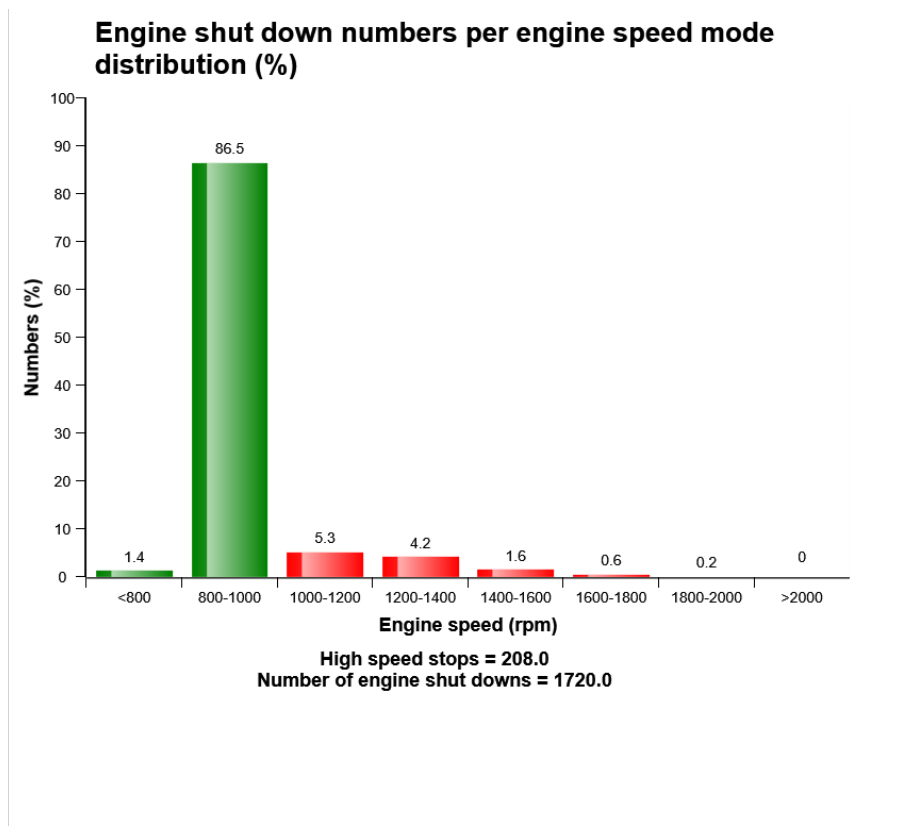
This graph shows the distribution of delayed time at low idle speed until the engine is turned off.

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

The sum of bars is 100%.



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Definition:

The diagram shows the number of stops at high idle (I1 ~ P mode).

Green bars = Normal engine stop

Red bars = Abnormal engine stop

Engine stops at a high idle can cause server damage to the turbo charger due to shortage of the oil lubrication. The engine should be stopped at low idle(I2 mode).

Explanation:

Y-axle: Number of engine stop at each work mode.

X-axle: Work mode.



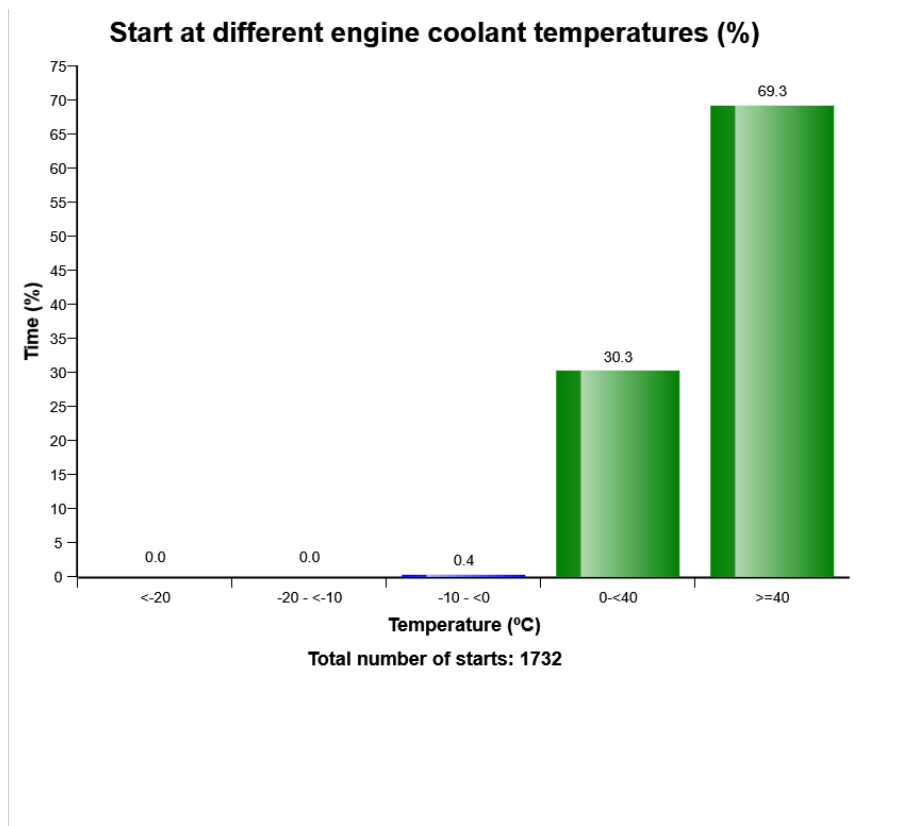
Machine model	SerialNo	Operating Hours	Reading Date
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Distribution of each work mode is shown on top of its column in number.

Total number of shut down is listed below the diagram.



Machine model	SerialNo	Operating Hours	Reading Date
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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.



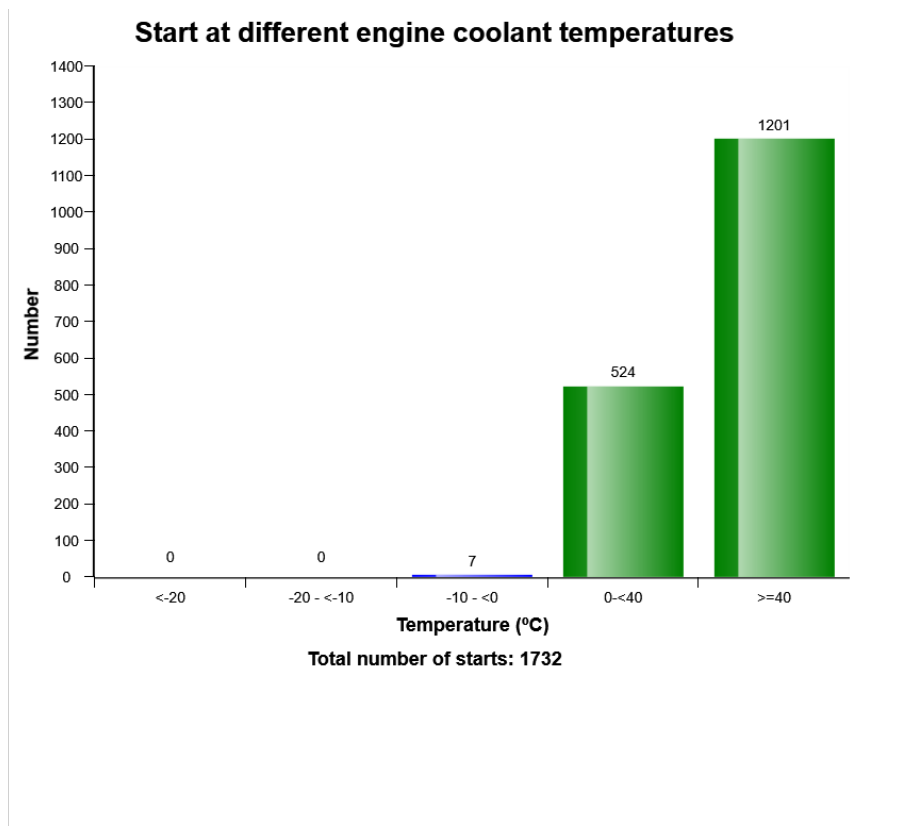
Machine model	SerialNo	Operating Hours	Reading Date
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Under the graph the total number of engine starts is displayed.

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



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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.

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Machine model	SerialNo	Operating Hours	Reading Date
EC220E	310492	2906.7	19/08/2019

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.



Machine model	SerialNo	Operating Hours	Reading Date
EC220E	310492	2906.7	19/08/2019

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

Criteria :

In order for an occurrence of low engine coolant level to be recorded in a data point, the count to increment by 1 the engine coolant level state must change from "normal" to "low."



Machine model	SerialNo	Operating Hours	Reading Date
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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

Criteria :

In order for an occurrence of low engine oil level to be recorded in a data point and the count to increment by 1, an Alarm shall have been received at start up of machine



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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 :

In order for an occurrence of low engine oil pressure to be recorded in a data point and the count to increment by 1, the engine 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."



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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.



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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 :

In order for an occurrence of high engine charge air temperature to be recorded and the count to increment by 1, the engine charge air temperature must change from "normal" to "high." The event of high engine charge air temperature will end when the status changes from "high" back to "normal."



Machine model	SerialNo	Operating Hours	Reading Date
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Regeneration aborted
Total number of occurrences = 6

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
* 1044	2018	1	16	23	13	2
* 1445	2018	5	23	15	7	2
* 1446	2018	5	24	14	21	2
* 1447	2018	5	24	16	14	1
* 1815	2018	11	28	9	32	1
* 2373	2019	3	12	16	0	2



Machine model	SerialNo	Operating Hours	Reading Date
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Regeneration ignored
Total number of occurrences = 45

	Op hours	Year	Month	Day	Hour	Minute	Duration (min)
*	1446	2018	5	24	14	21	0
*	1446	2018	5	24	15	30	2
*	1749	2018	11	14	12	44	15
*	1749	2018	11	14	13	33	148
*	1752	2018	11	14	16	11	1
*	1752	2018	11	14	16	23	4
*	1752	2018	11	14	17	0	13
*	1752	2018	11	15	7	4	0
*	1752	2018	11	15	7	10	167
*	1755	2018	11	16	7	13	164
*	1758	2018	11	16	10	21	96
*	1813	2018	11	28	8	13	8
*	1814	2018	11	28	8	51	0
*	1814	2018	11	28	9	14	0
*	1815	2018	11	28	9	42	0
*	1815	2018	11	28	9	38	1
*	1819	2018	11	28	14	45	0
*	2372	2019	3	12	15	56	1
*	2373	2019	3	12	16	0	14
*	2373	2019	3	12	16	43	1



Machine model	SerialNo	Operating Hours	Reading Date
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Regeneration duration
Total number of occurrences = 23

	Op hours	Year	Month	Day	Hour	Minute	Duration (min)
*	1434	2018	5	16	9	17	4
*	1434	2018	5	16	9	23	4
*	1438	2018	5	22	8	23	33
*	1439	2018	5	22	8	58	2
*	1441	2018	5	23	11	9	33
*	1441	2018	5	23	11	43	10
*	1445	2018	5	23	15	0	6
*	1445	2018	5	24	12	56	33
*	1445	2018	5	24	13	30	9
*	1446	2018	5	24	13	46	8
*	1446	2018	5	24	14	0	21
*	1446	2018	5	24	15	32	33
*	1447	2018	5	24	16	6	8
*	1749	2018	11	14	12	59	34
*	1759	2018	11	16	11	56	45
*	1813	2018	11	28	8	21	71
*	1815	2018	11	28	9	39	48
*	1819	2018	11	28	14	45	48
*	2372	2019	3	12	15	57	3
*	2373	2019	3	12	16	15	73



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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.

Extreme value :

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

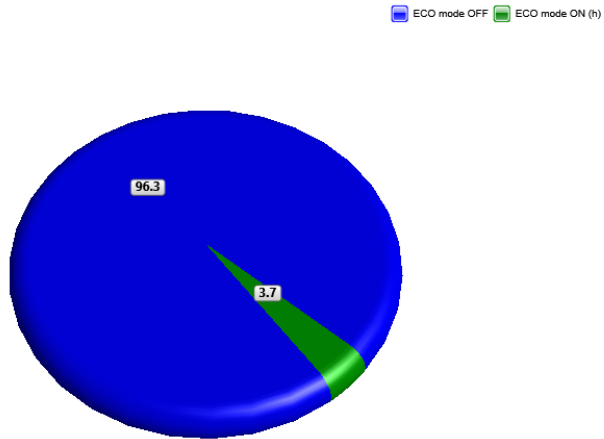
Criteria :

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.



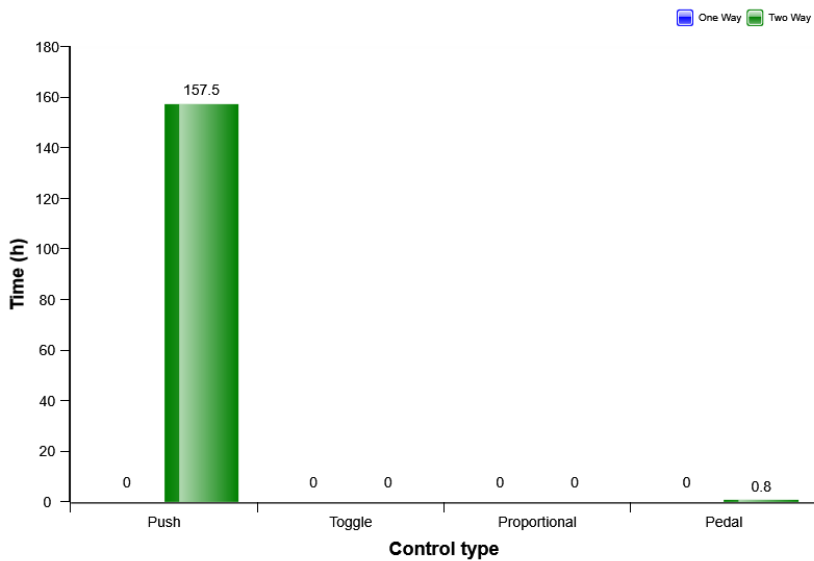
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ECO mode distribution (%)



Total engine time (h)= 2906.7

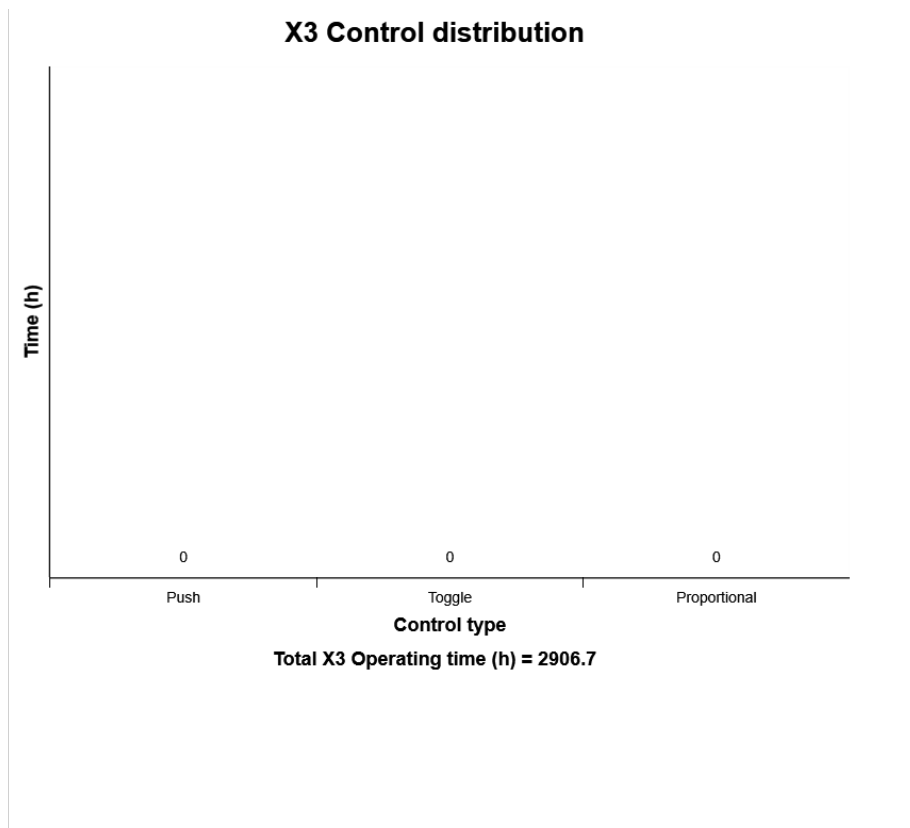
X1 control distribution



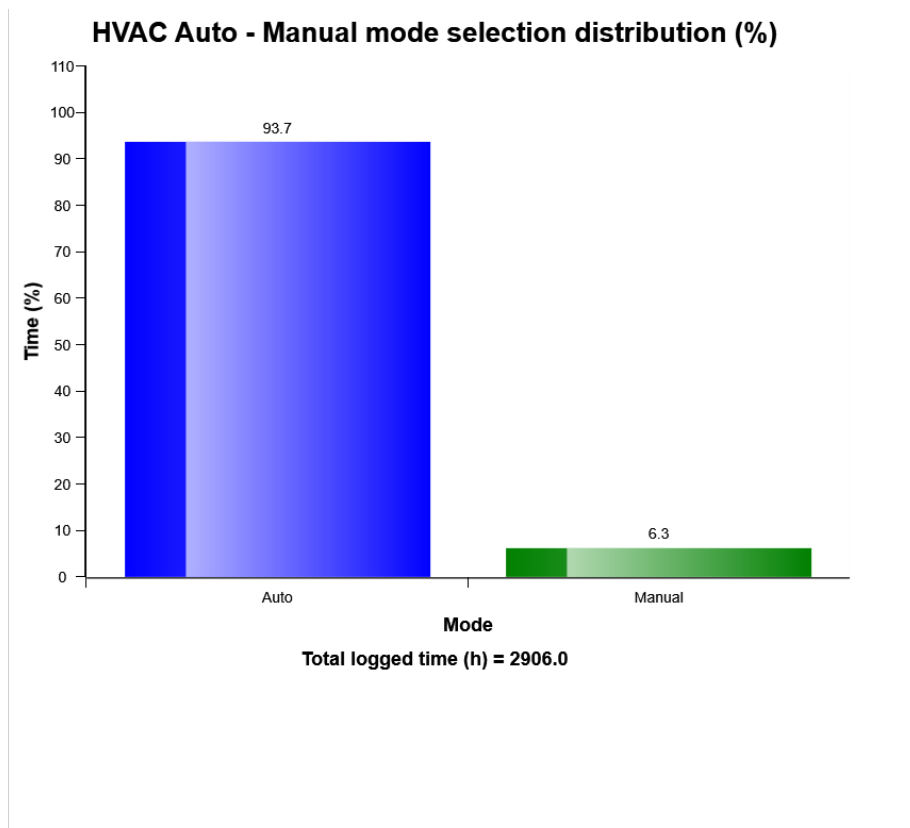
Total One way flow operating time (h) = 0.0
 Total Two way flow operating time (h) = 158.3



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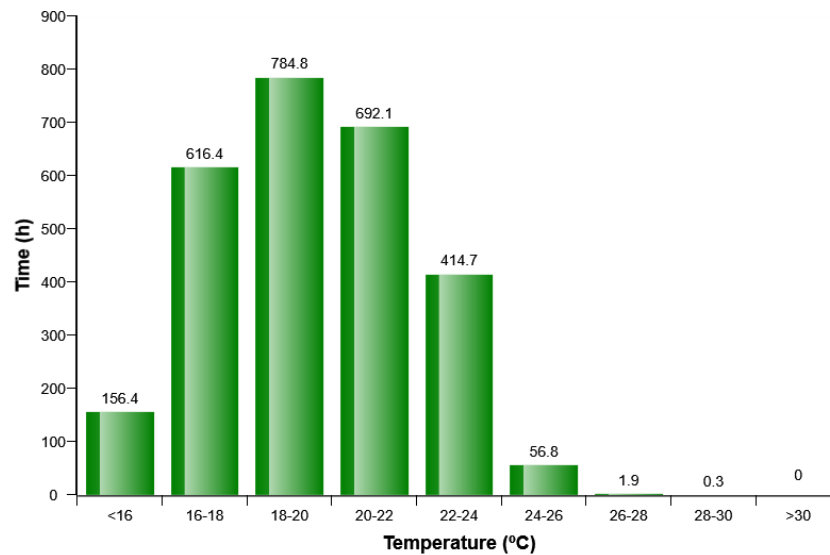
Definition:

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.



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

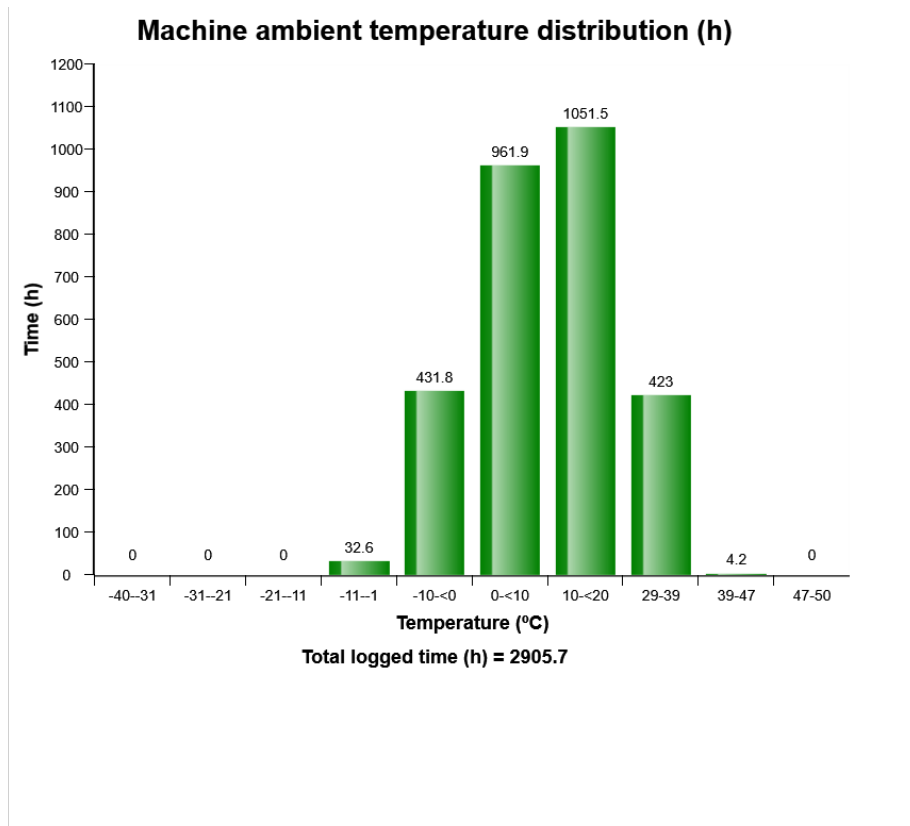


Definition:

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



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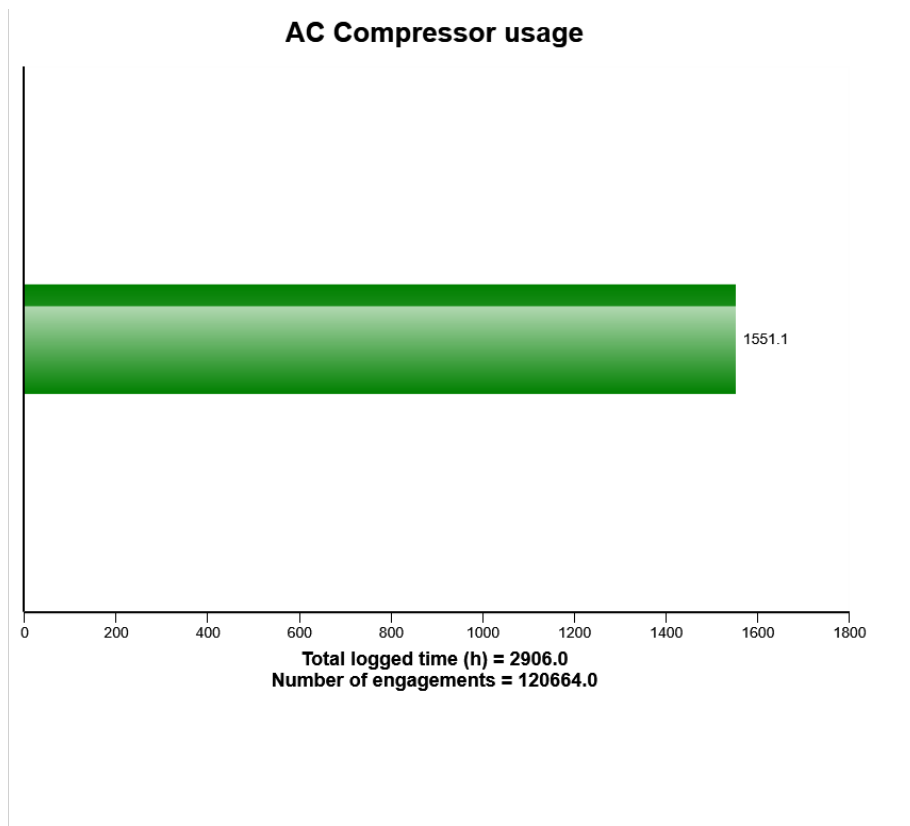


Definition:

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.

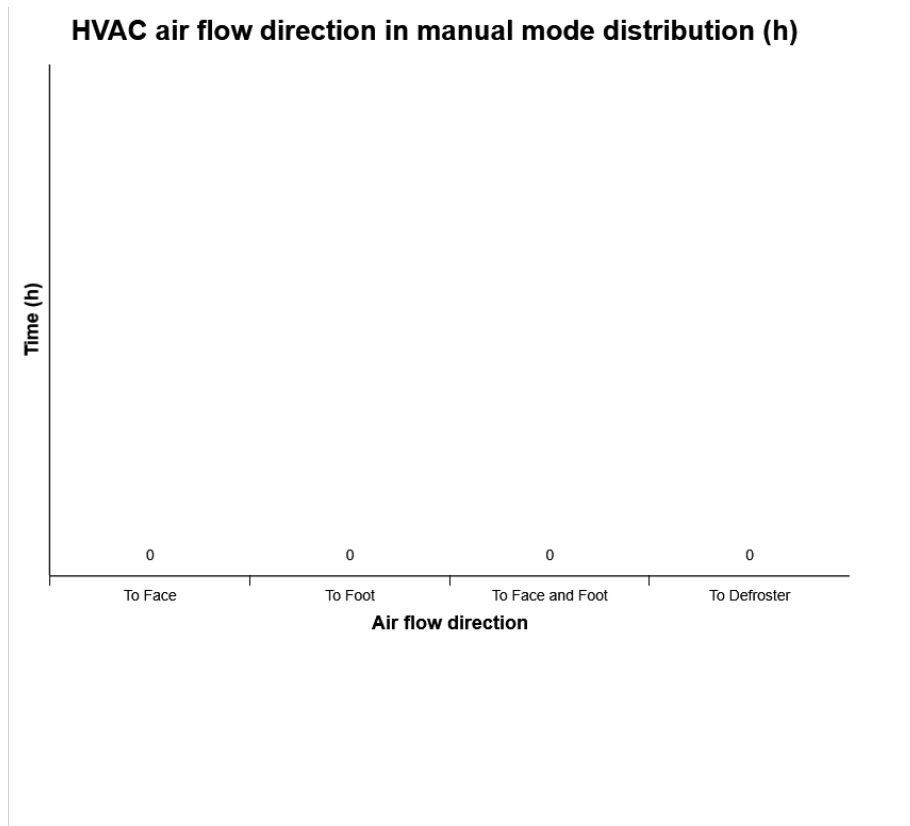
Total number of AC compressor activations is also displayed.



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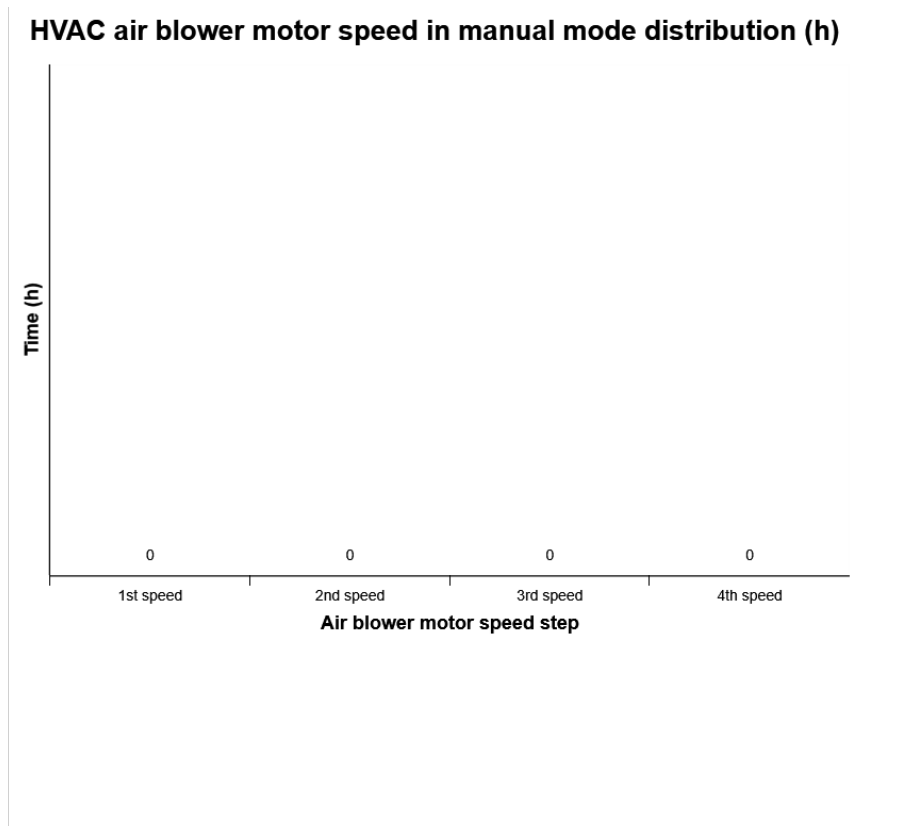


Definition:

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
EC220E	310492	2906.7	19/08/2019

**AC High Pressure
Total number of occurrences = 0**

Op hours	Year	Month	Day	Hour	Minute	Duration (seconds)	Ambient temperature (°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
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



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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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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 :

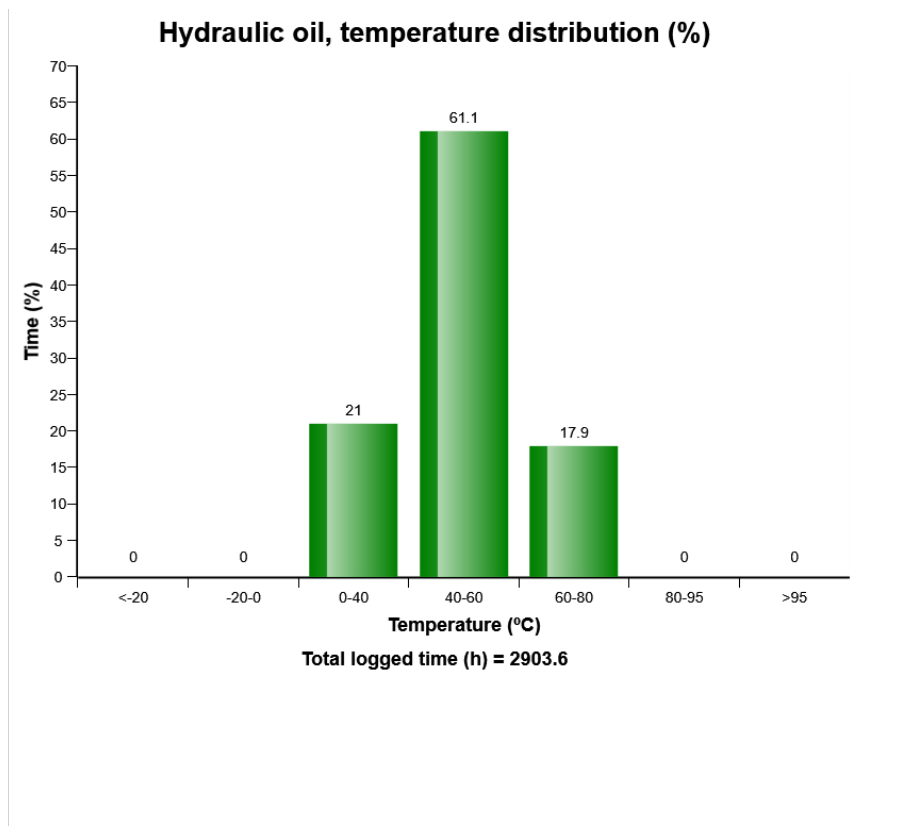
The extreme value column displays the most extreme value during the event.

Criteria :

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



Machine model	SerialNo	Operating Hours	Reading Date
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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.

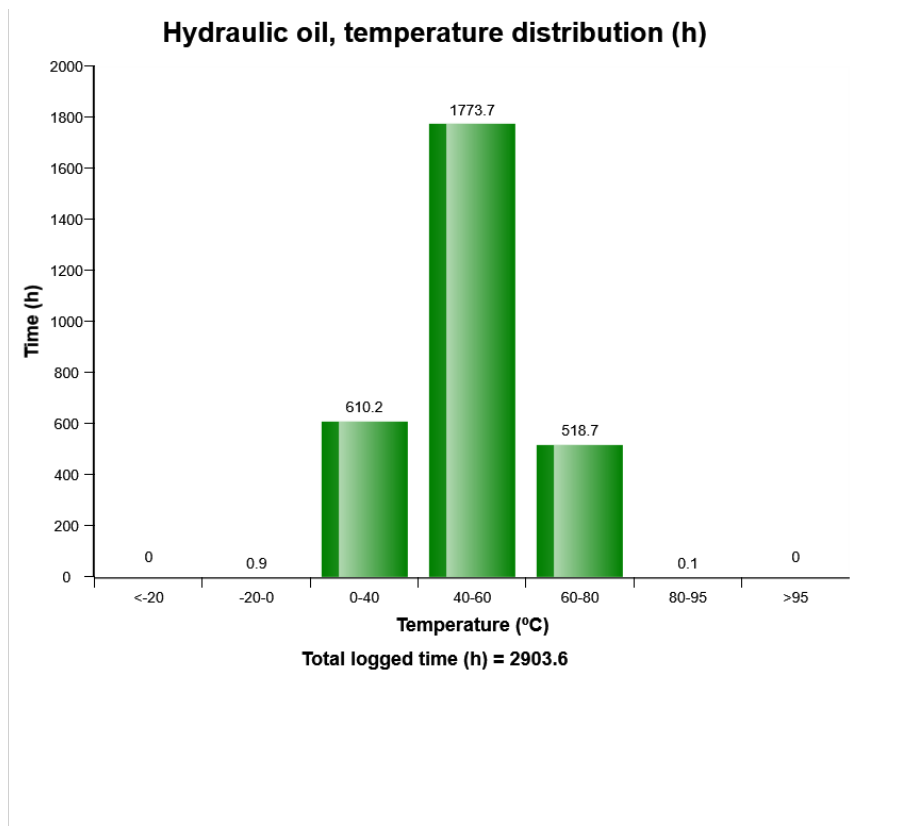
Yellow bar = High working temperature. It is normal to have some registrations in this region.

Red bar = Alarm.

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



Machine model	SerialNo	Operating Hours	Reading Date
EC220E	310492	2906.7	19/08/2019



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
EC220E	310492	2906.7	19/08/2019

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

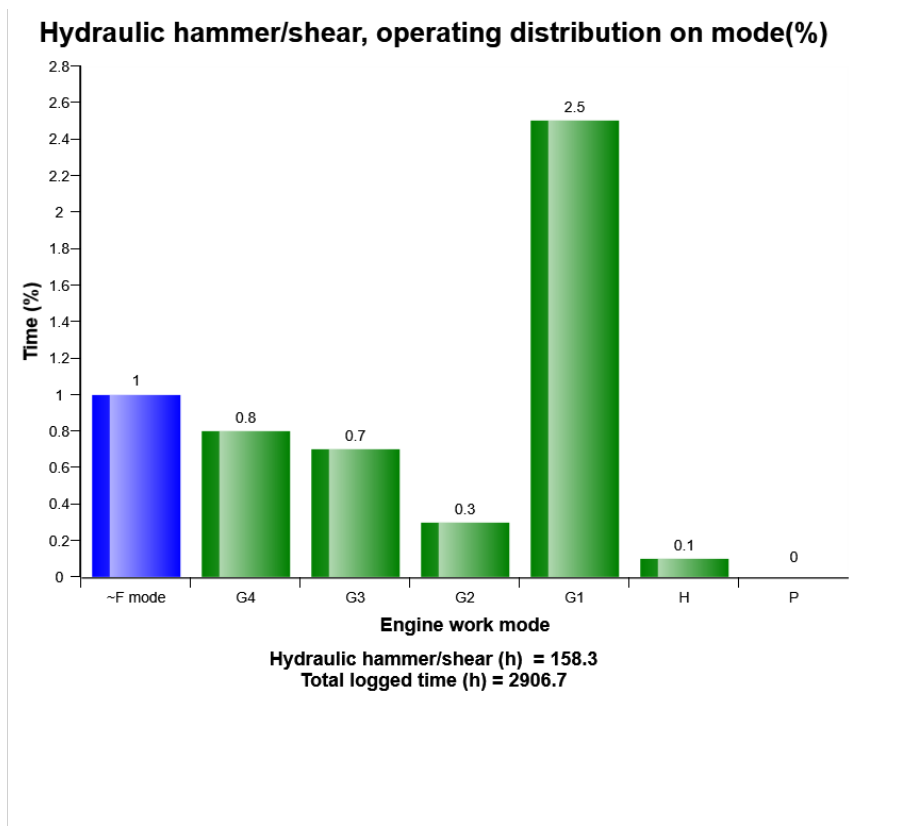
Yellow bar = High working temperature. It is normal to have some registrations in this region.

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
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Definition:

The graph describes the operating hours (%) for hydraulic hammer/shears on each engine control mode .

Recommended to use green column mode of the hammer operation.

I2 = Idle 2

I1 = Idle 1

F3= Fine control 3

F2= Fine control 2



Machine model	SerialNo	Operating Hours	Reading Date
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F1= Fine control 1

G3 = General 3

G2 = General 2

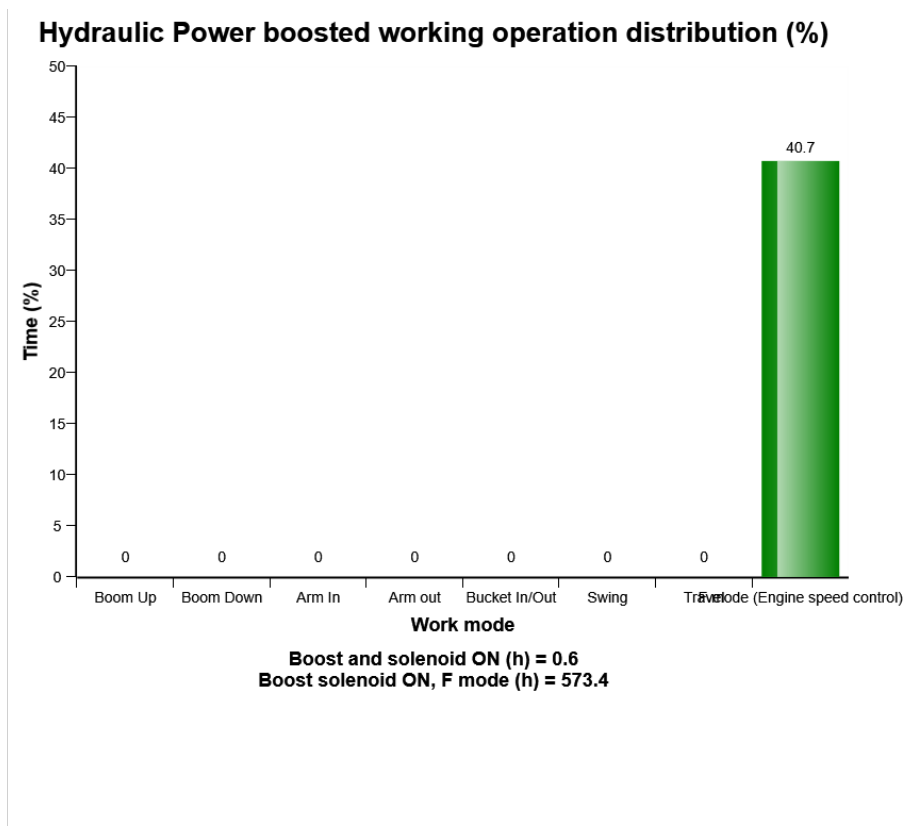
G1 = General 1

H = Heavy Duty

P = Power max



Machine model	SerialNo	Operating Hours	Reading Date
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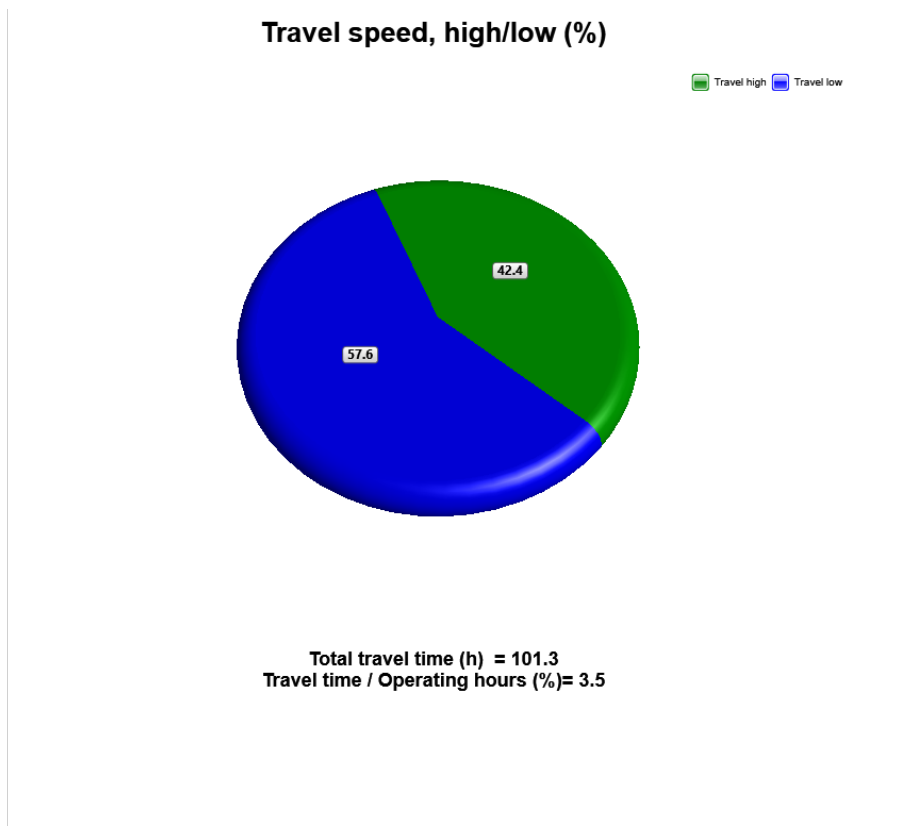
Definition:

The diagram describes Power boosted operating time distribution, when main relief pressure increases on working operation modes. In this diagram, the sum of time (%) of each working operation mode can exceed 100%. It means that customer has been operated several working operations at the same time.

Total operating time with power boosted (hours) in above means sum of the time for Hydraulic Power boosted operation. The base for the percentage calculation is Total operating time with power boost. Time(%) on each working operation mode except travel and F mode above is the time, after the operator press power boost button on the joystick and until main relief pressure is recovered to default pressure.



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Definition:

This graph shows operating hour distributions on each travel speed for total travel time.

Blue sector: Travel switch in low position

Green sector: Travel switch in high position

Explanation:

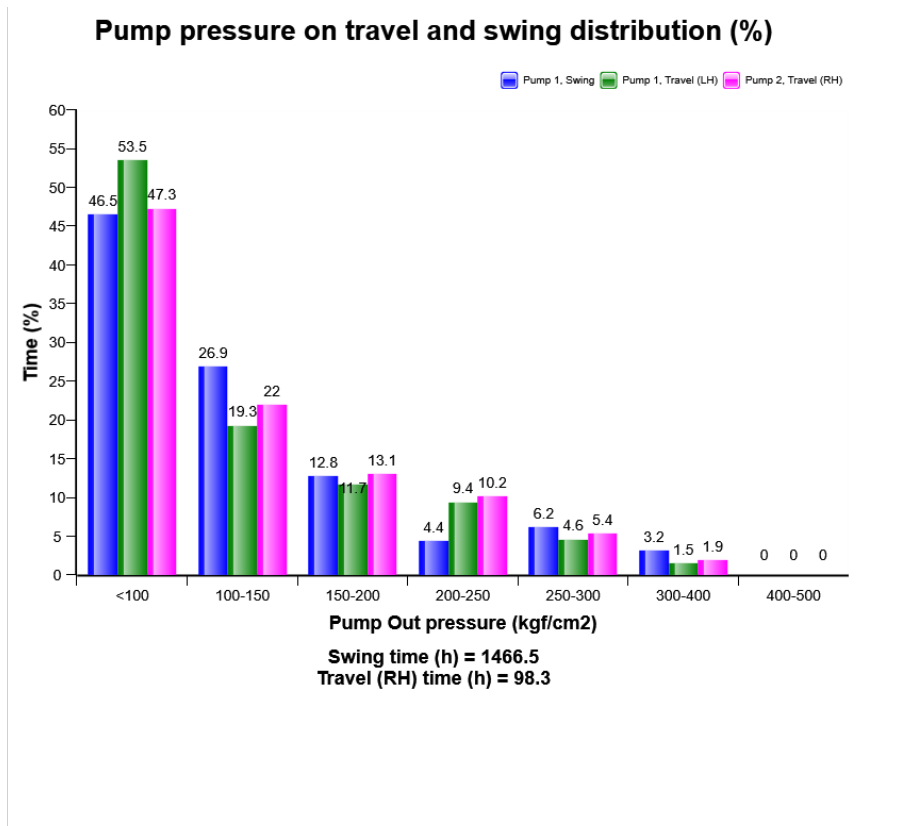
Distribution of each travel time is shown on right of its sector in percentage

The sum of travel time in percentage is 100

Total travel time is listed below the diagram



Machine model	SerialNo	Operating Hours	Reading Date
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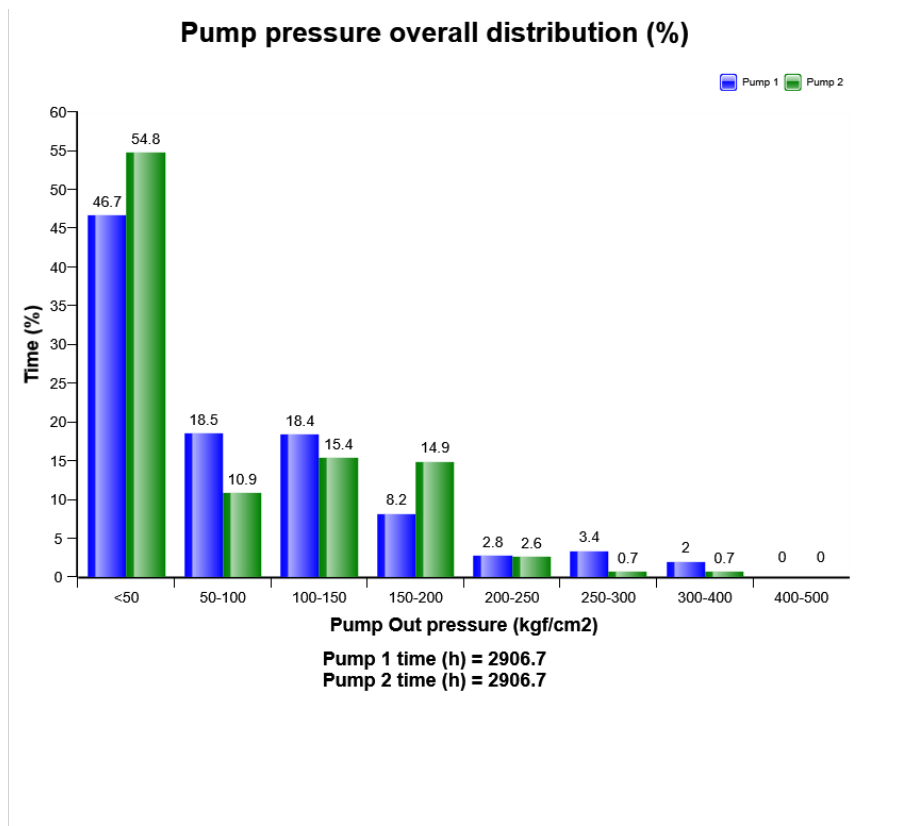


Definition:

The diagram describes Pump outlet pressure of 2 Pumps for travel and swing operation distribution. In case operator use several operations at the same time, this pressure distribution for travel and swing operation can be different from actual operating pressure distribution for travel and swing operation in field.



Machine model	SerialNo	Operating Hours	Reading Date
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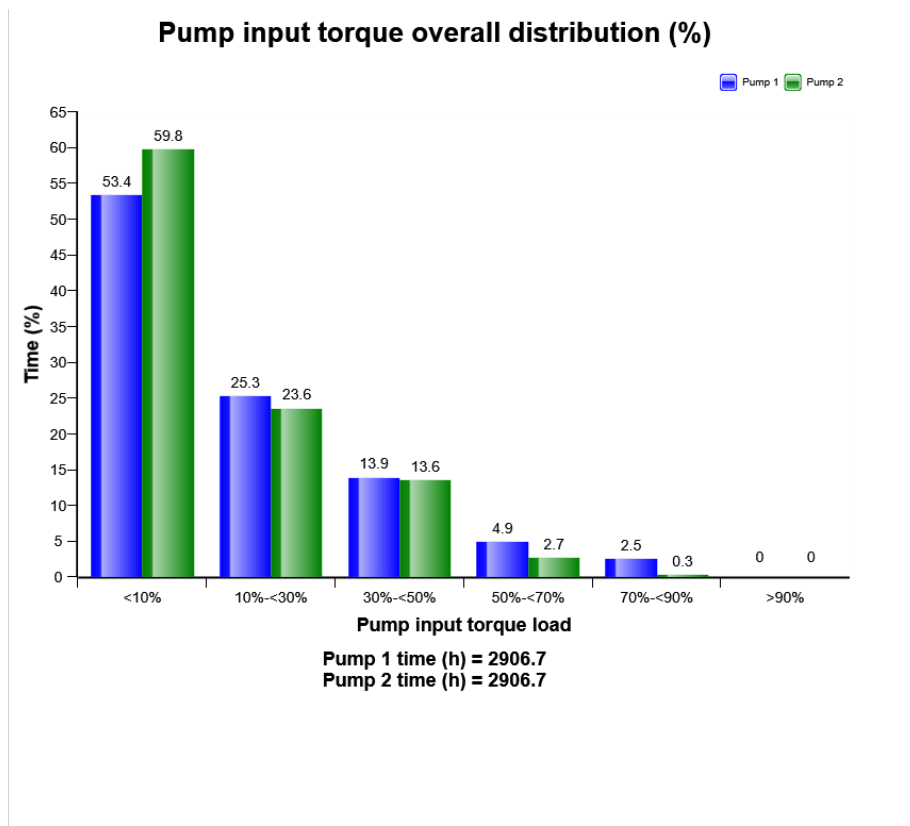


Definition:

The diagram describes Pump outlet pressure of 2 Pumps distribution.



Machine model	SerialNo	Operating Hours	Reading Date
EC220E	310492	2906.7	19/08/2019

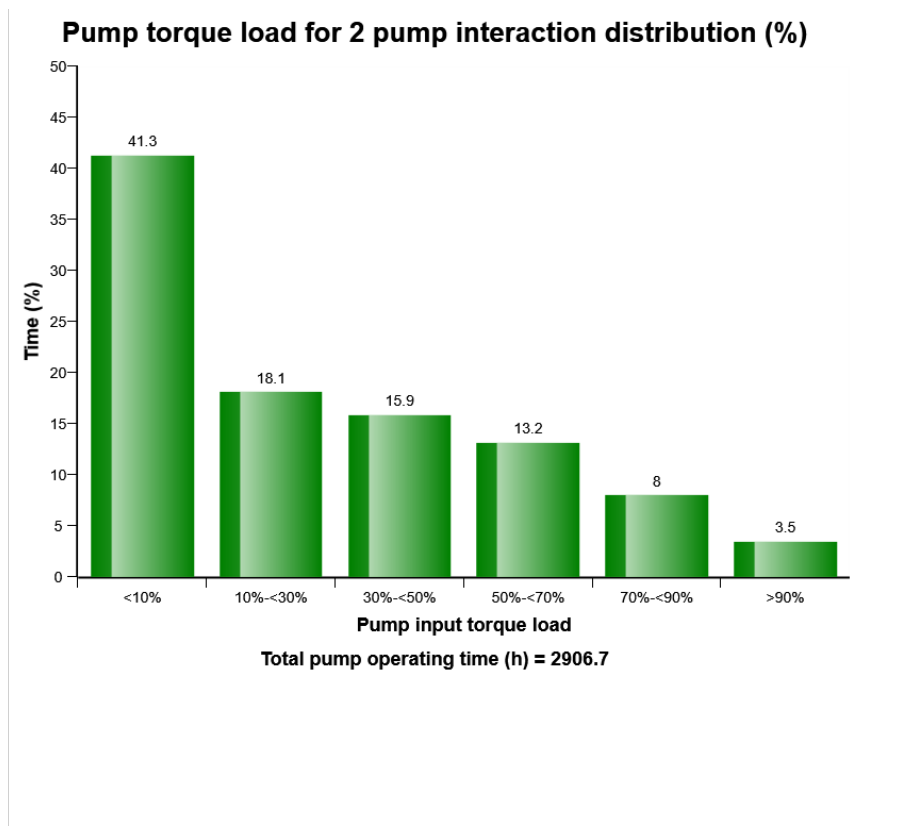


Definition:

The diagram describes Pump torque load of 2 Pumps distribution.



Machine model	SerialNo	Operating Hours	Reading Date
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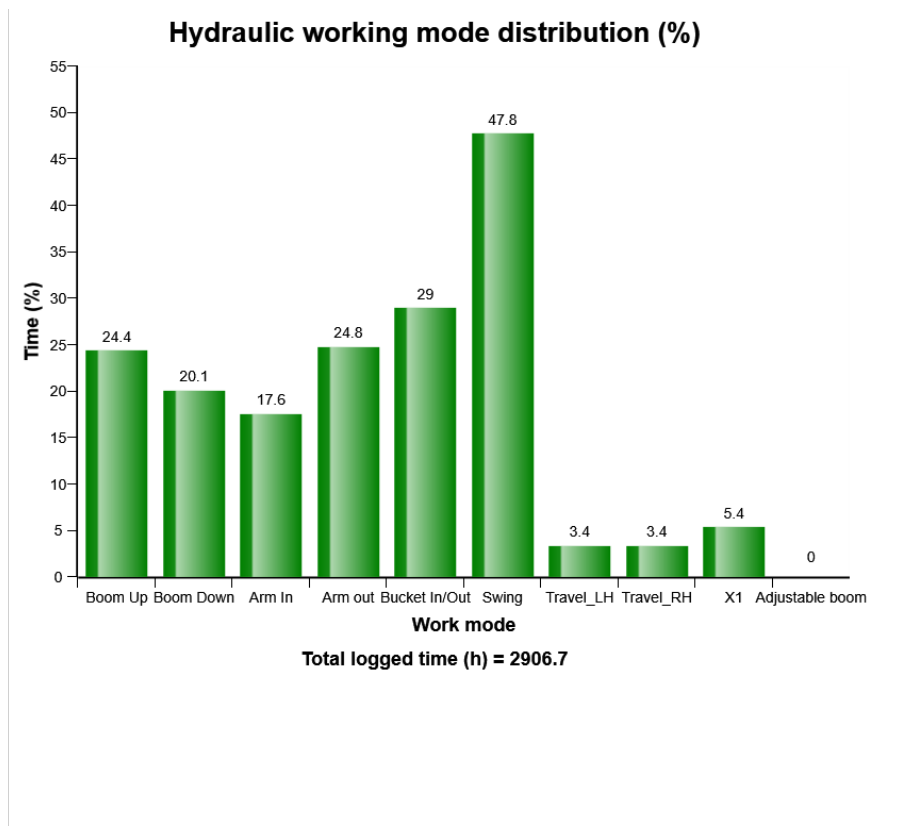
Definition:

This is to see total torque load distribution of 2 pumps when it operates 2 pumps at the same time.

The diagram describes total Pump torque load for 2 Pump's interaction distribution



Machine model	SerialNo	Operating Hours	Reading Date
EC220E	310492	2906.7	19/08/2019

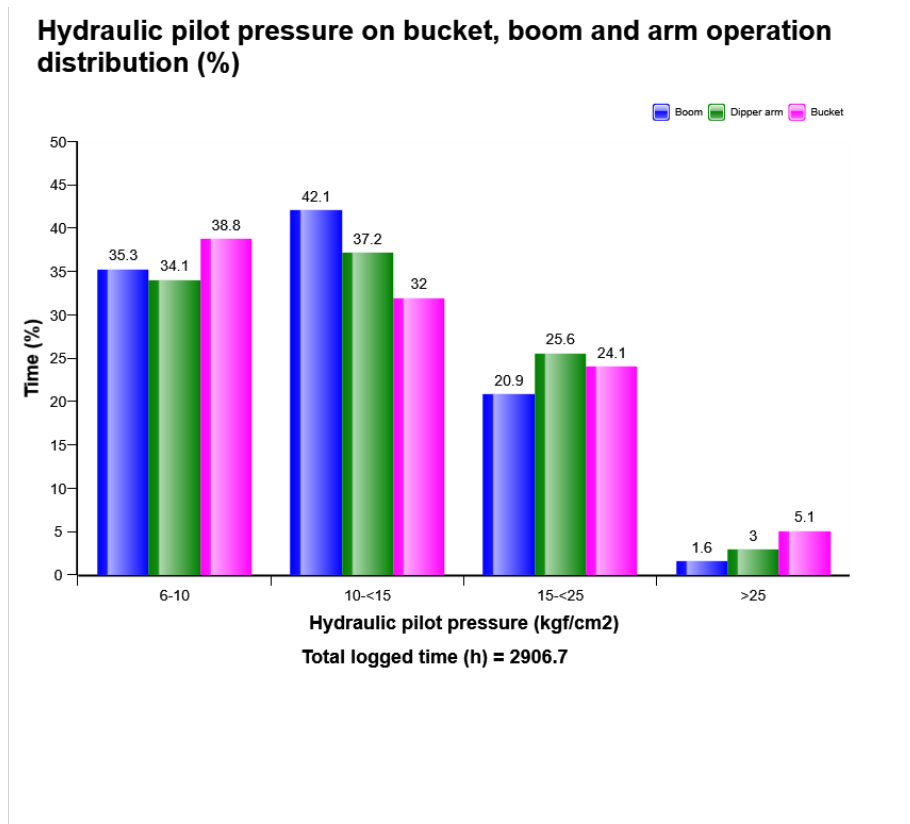


Definition:

The diagram describes hydraulic working operation mode distribution.



Machine model	SerialNo	Operating Hours	Reading Date
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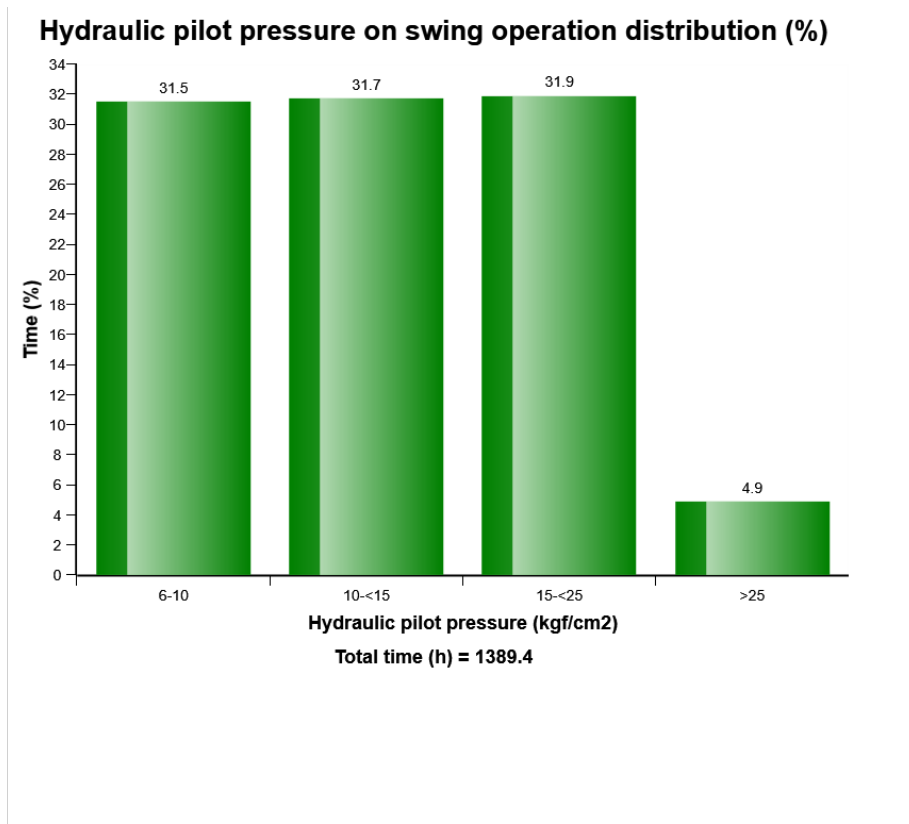


Definition:

The diagram describes the distribution of hydraulic pilot pressure in specified operation



Machine model	SerialNo	Operating Hours	Reading Date
EC220E	310492	2906.7	19/08/2019

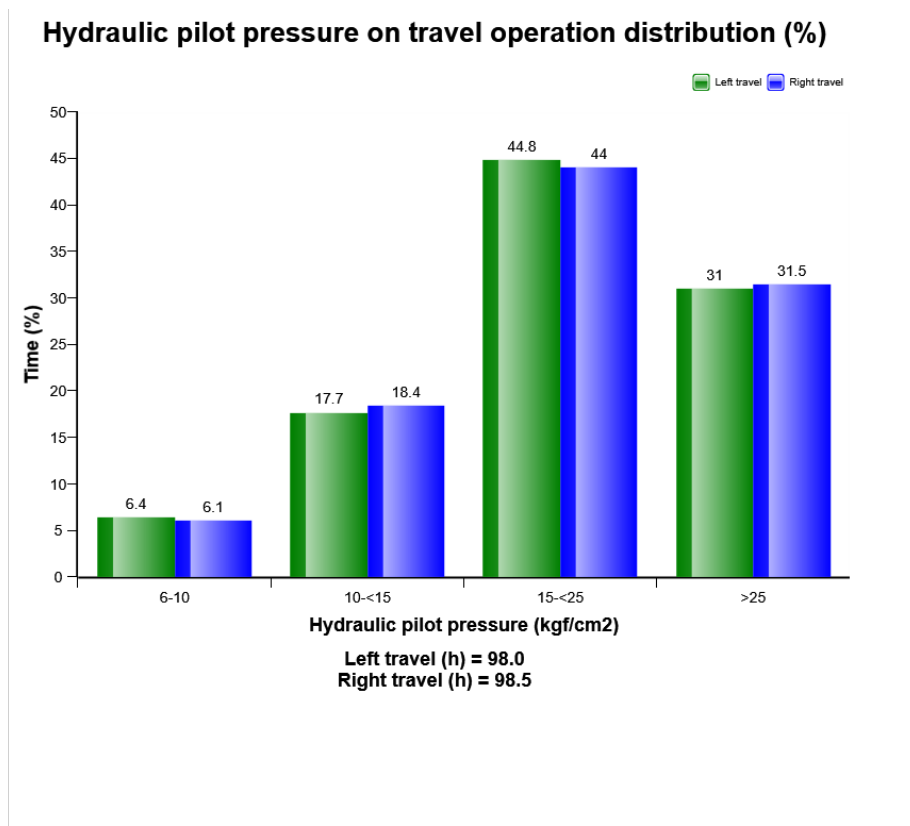


Definition:

The diagram describes the distribution of hydraulic pilot pressure in specified operation



Machine model	SerialNo	Operating Hours	Reading Date
EC220E	310492	2906.7	19/08/2019



Definition:

The diagram describes the distribution of hydraulic pilot pressure in specified operation



Machine model	SerialNo	Operating Hours	Reading Date
EC220E	310492	2906.7	19/08/2019

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 :

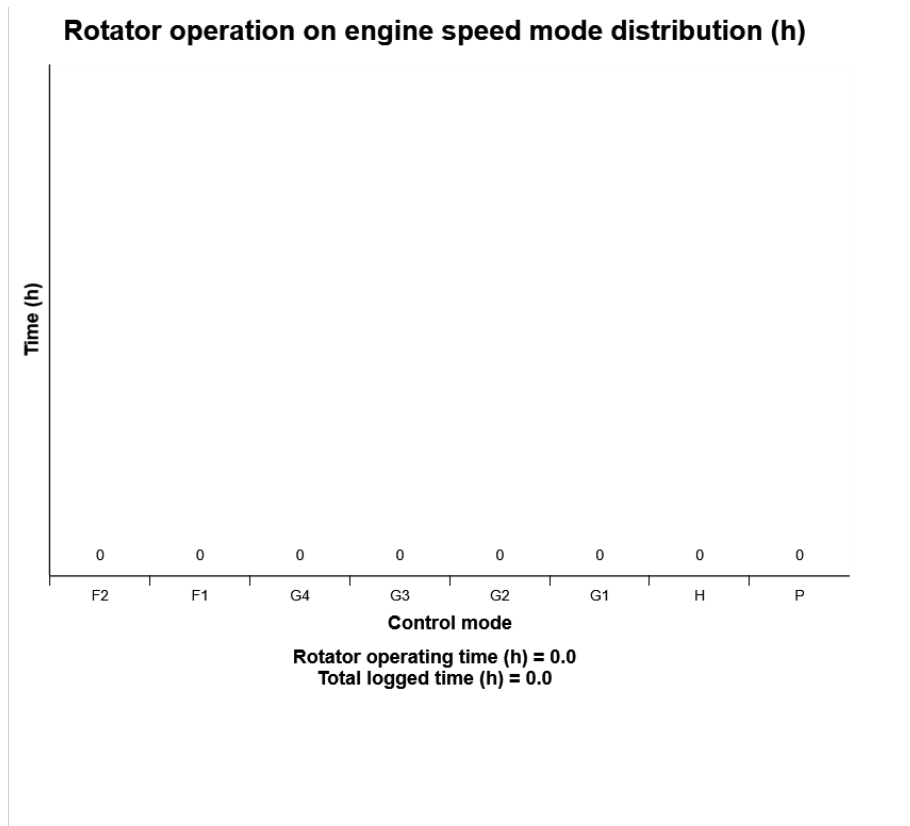
The extreme value column displays the most extreme value during the event.

Criteria :

Logging is performed when, Alarm high hydraulic oil temperature , is active.



Machine model	SerialNo	Operating Hours	Reading Date
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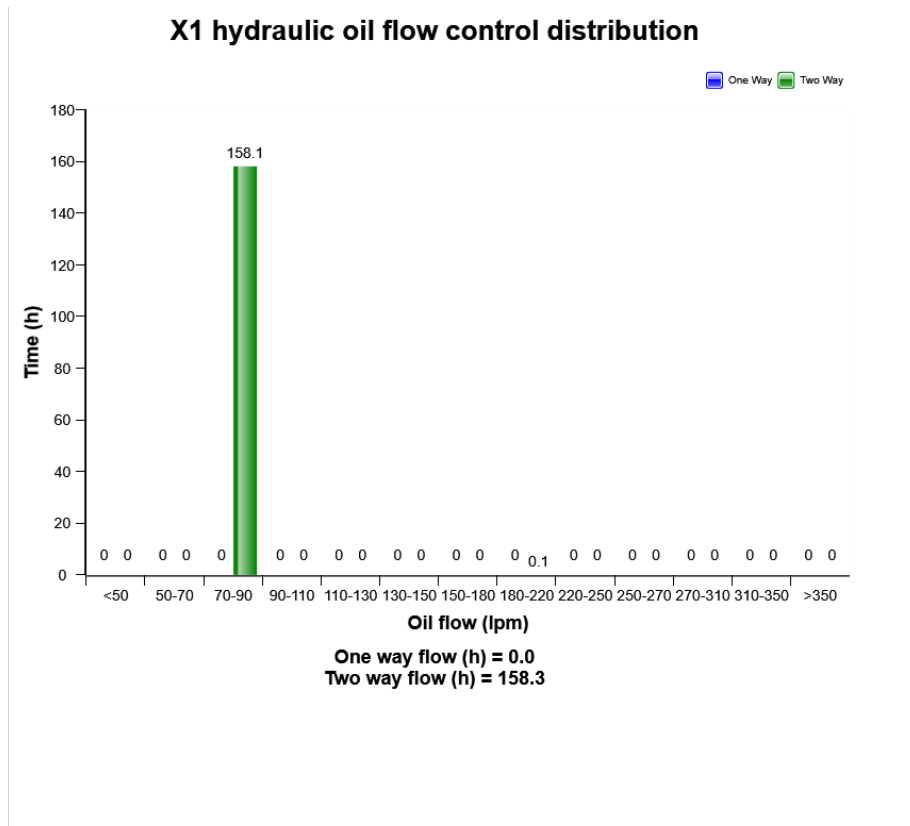


Definition:

The diagram describes the distribution of Rotator operating hours on mode.



Machine model	SerialNo	Operating Hours	Reading Date
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Definition:

The diagram describes X1 hydraulic oil flow control distribution of the machine while machine operates.

