

VOLVO CONSTRUCTION EQUIPMENT MATRIS REPORT

Machine model A40G	SerialNo 341672	Operating Hours 5083	Reading Date 21/03/2019
Company name PCS Aurora, NC	Dealer		Report Issuer
Contact name	Technician bdupstadt	Primary Application Mining	
Site	Workorder	Ground Condition	

MATRIS Reading, Summary / Recommendation

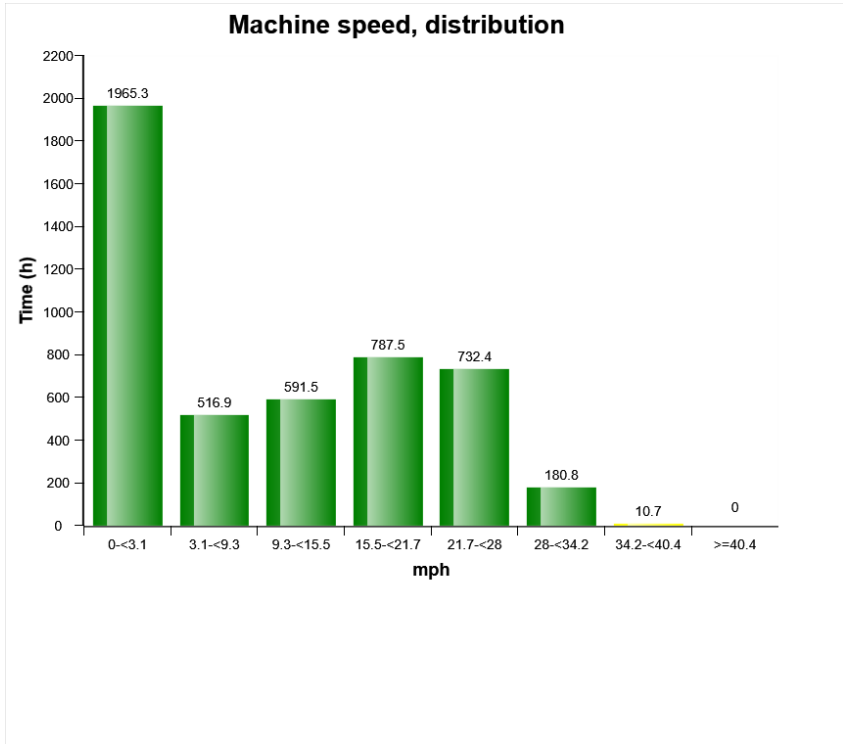
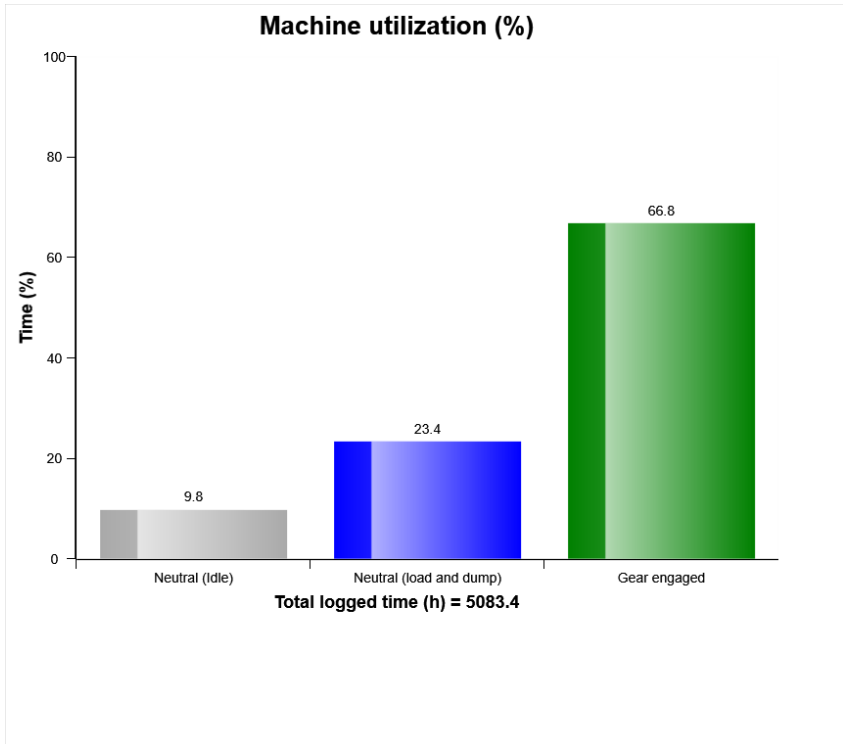


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A40G	341672	5083	21/03/2019

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

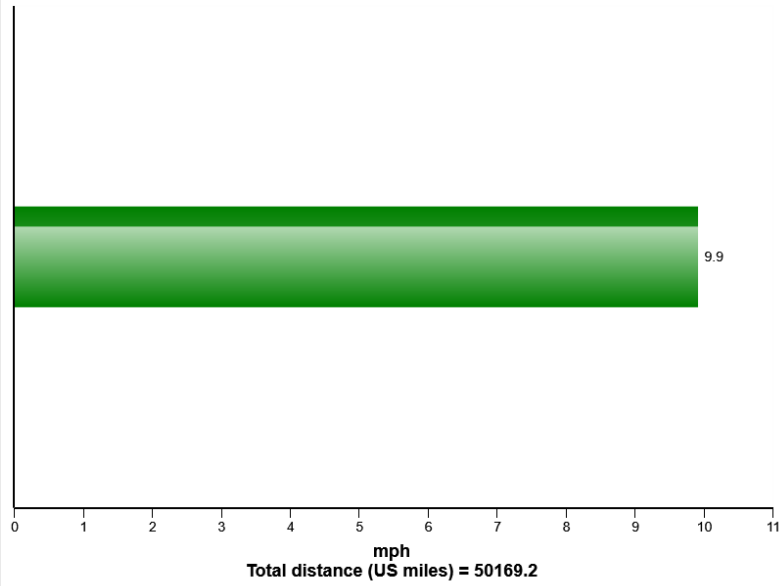


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A40G	341672	5083	21/03/2019

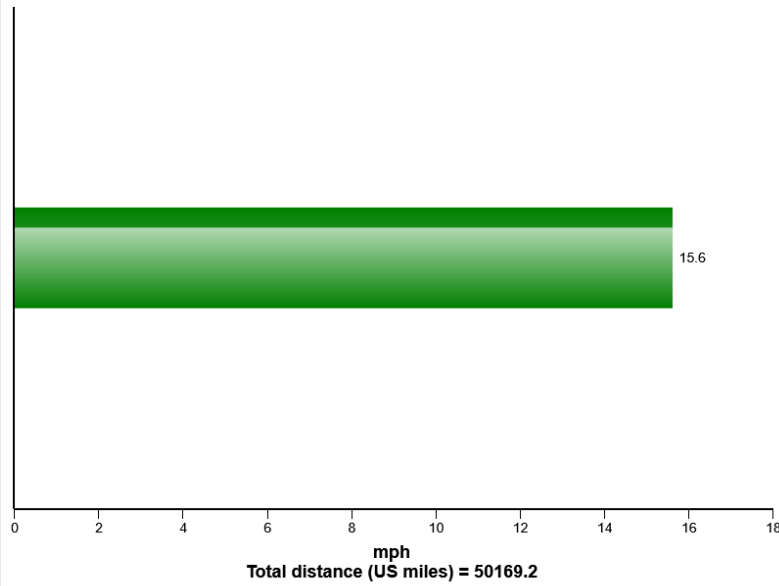


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A40G	341672	5083	21/03/2019

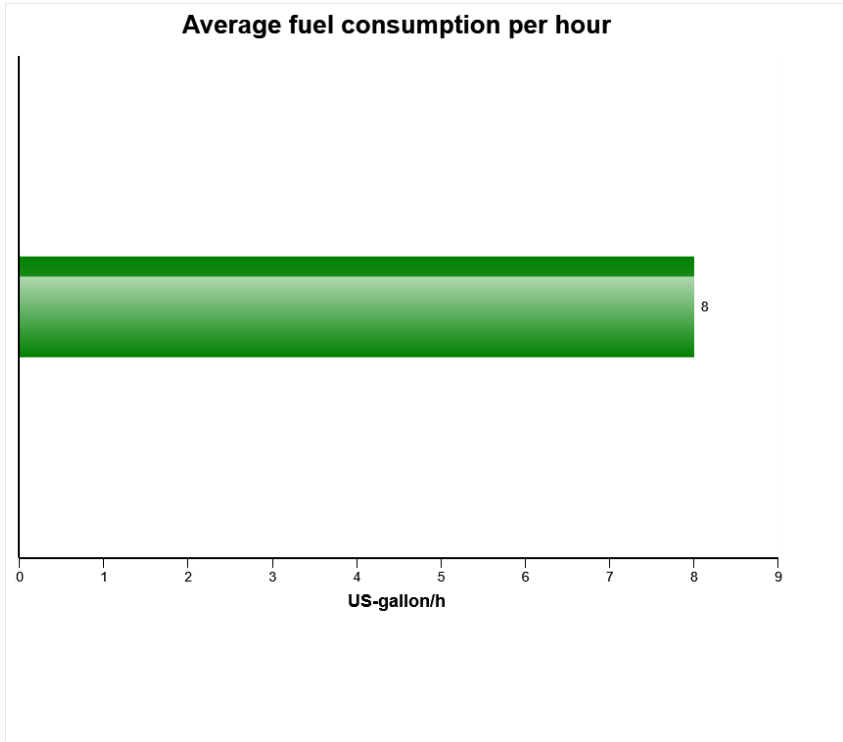
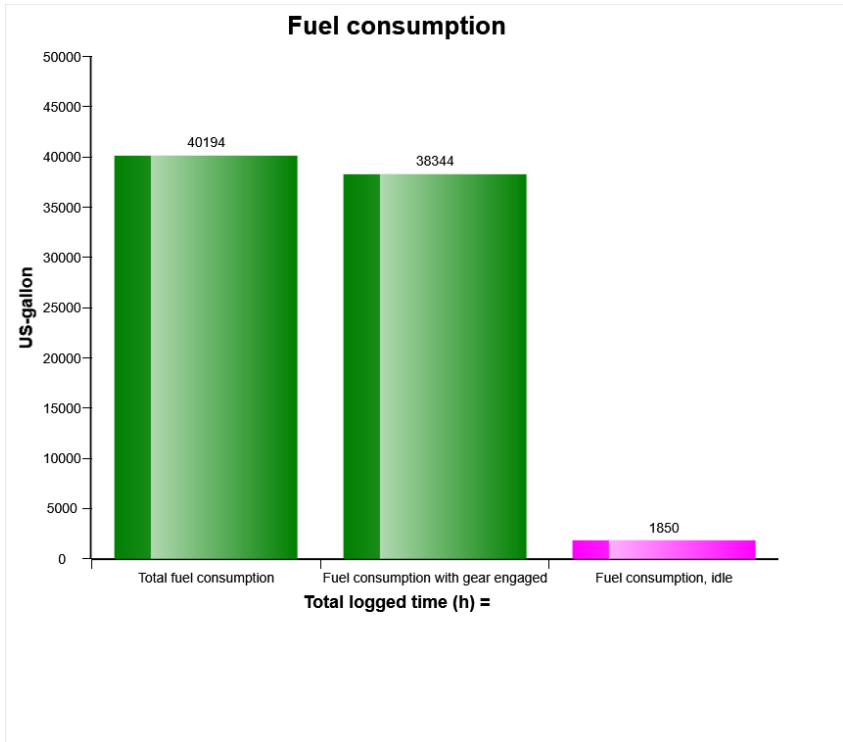
Average speed over total operating hours



Average speed with gear engaged

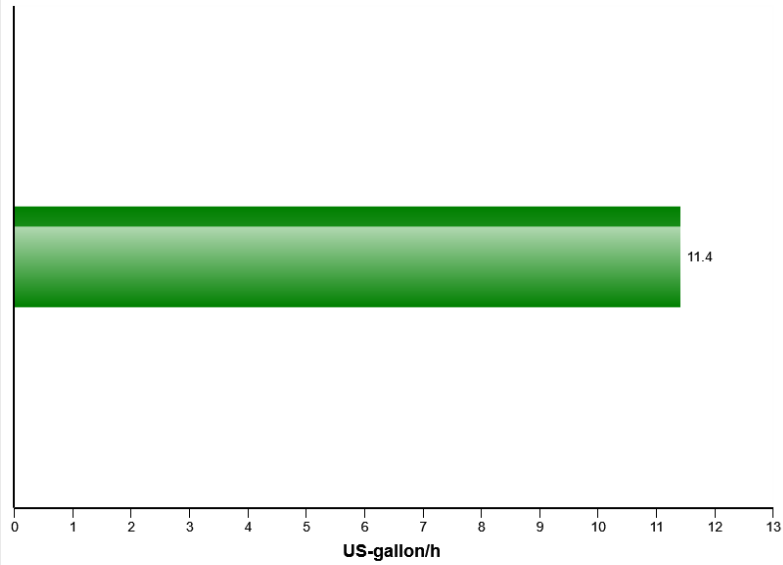


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A40G	341672	5083	21/03/2019

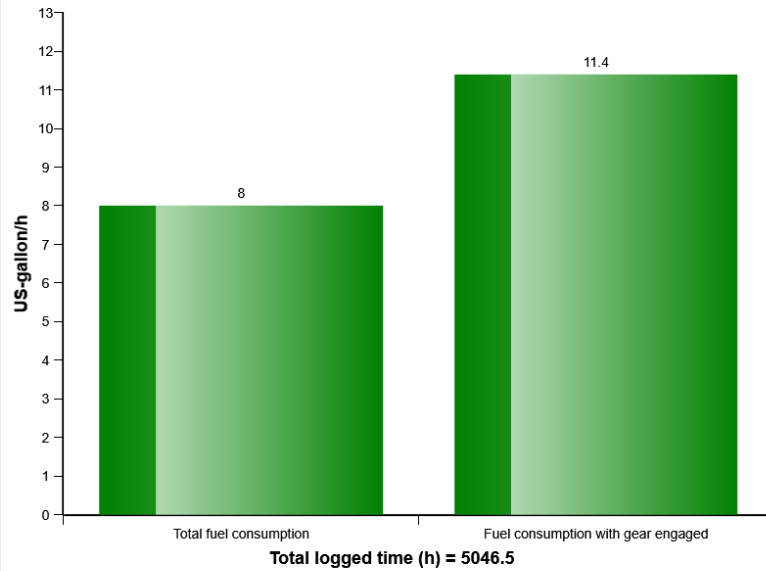


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A40G	341672	5083	21/03/2019

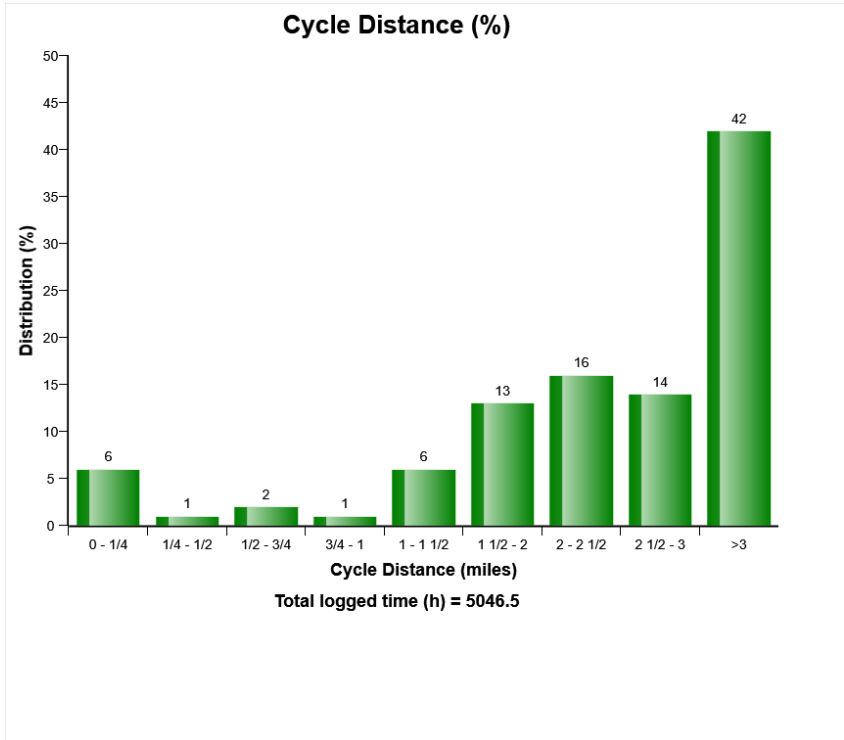
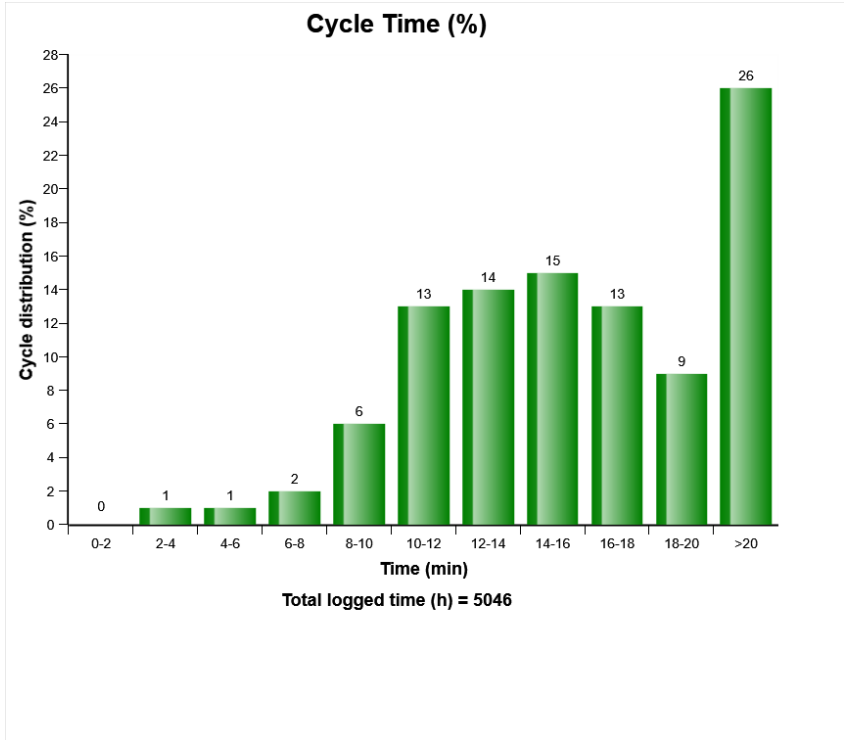
Average fuel consumption per hour with gear engaged



Average fuel consumption



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A40G	341672	5083	21/03/2019



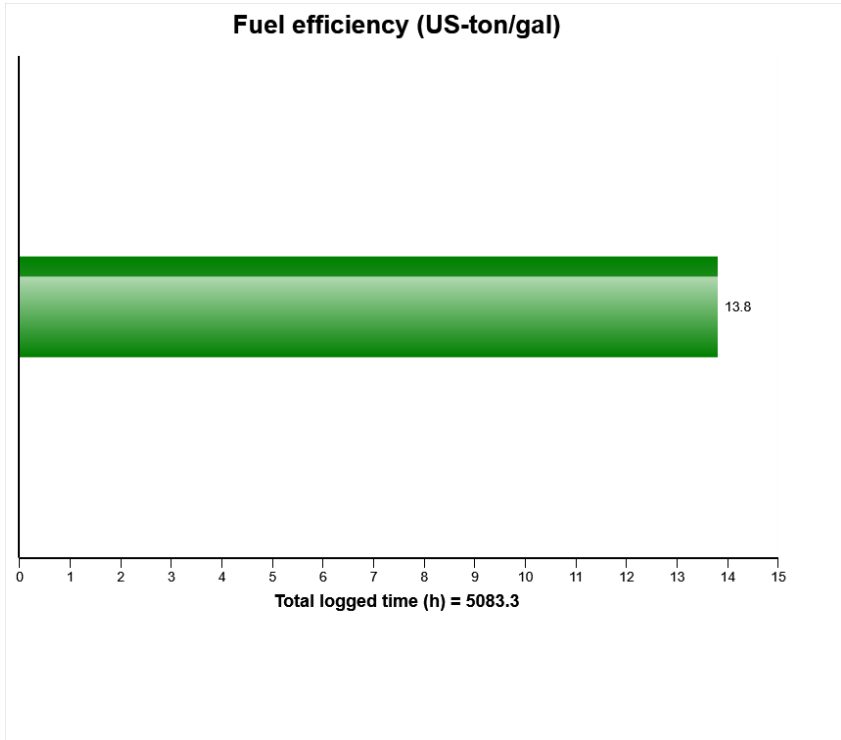
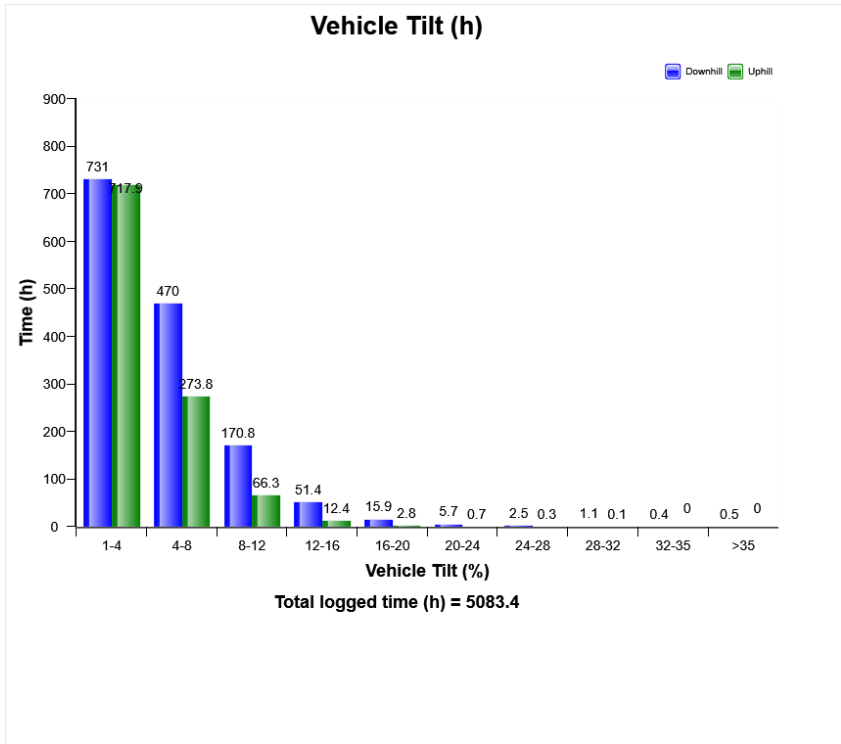
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A40G	341672	5083	21/03/2019

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

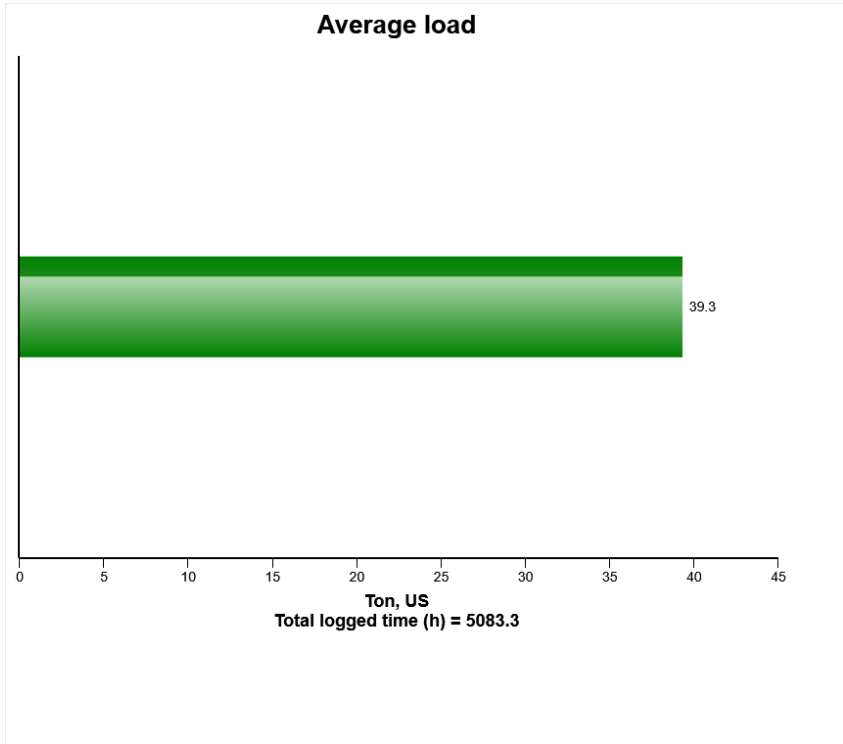
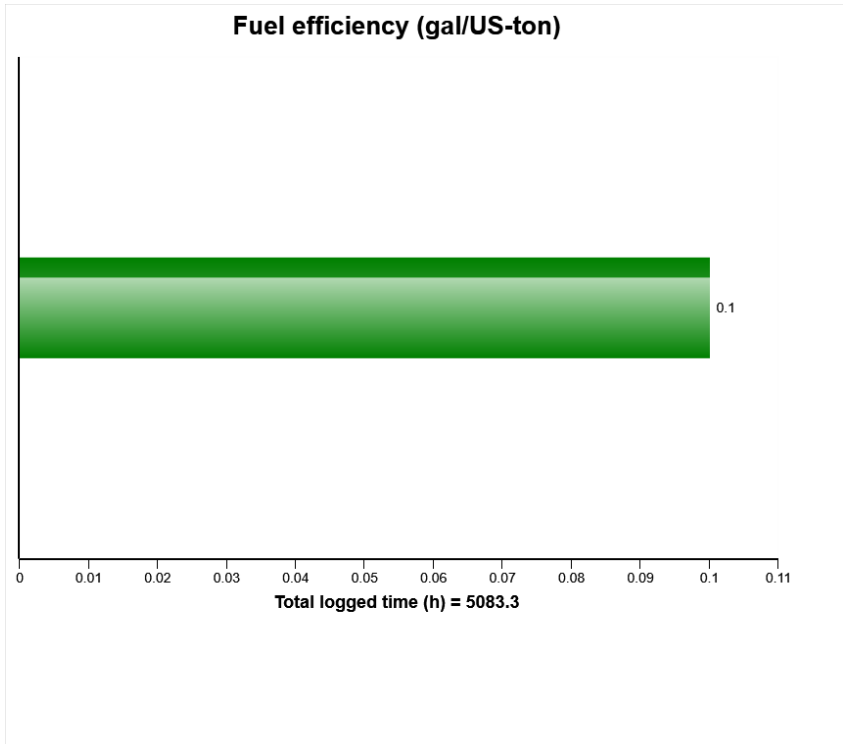
Total logged time (h) =	5083.3
Fuel consumption (US-gallons)	40204
Production (ton,US)	555248
Ton/h	109.2
Ton/gal	13.8
Fuel efficiency (US Gal/ton)	0.07
Number of cycles	14113
Cycles overloaded (%)	3
Load utilisation / cycle (%)	92



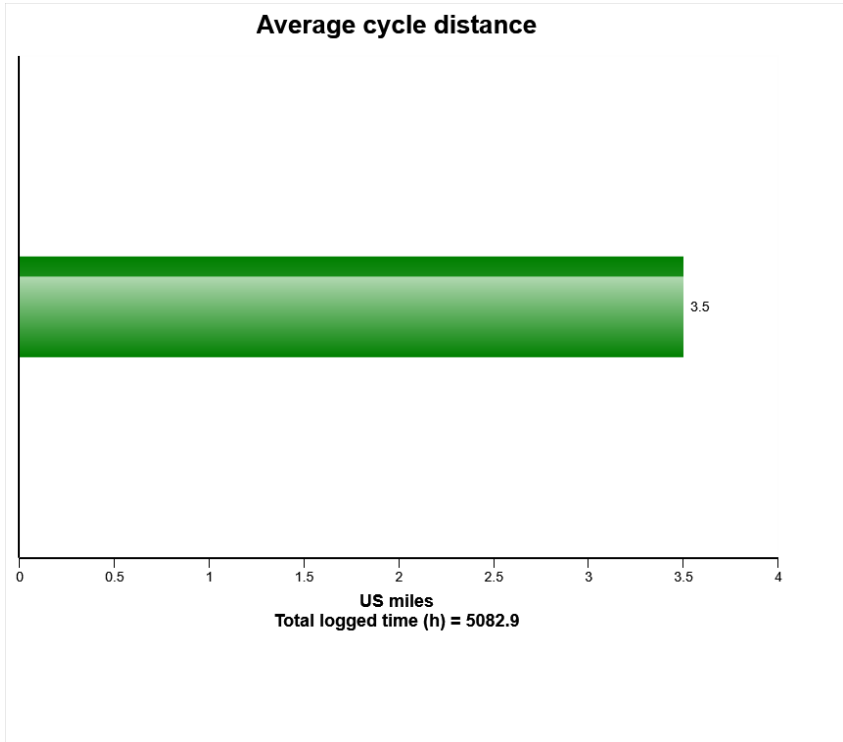
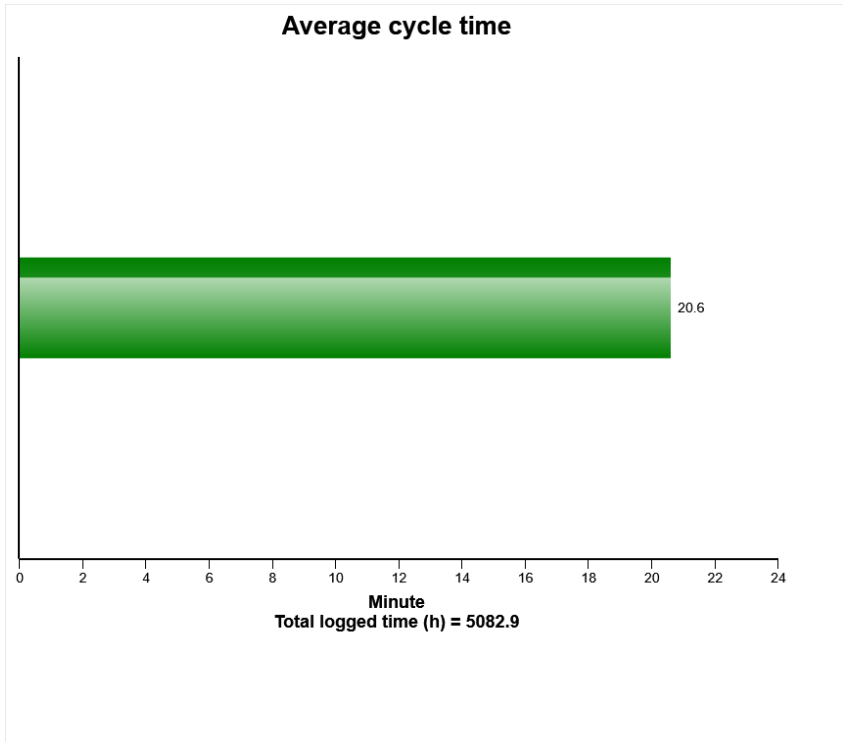
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A40G	341672	5083	21/03/2019



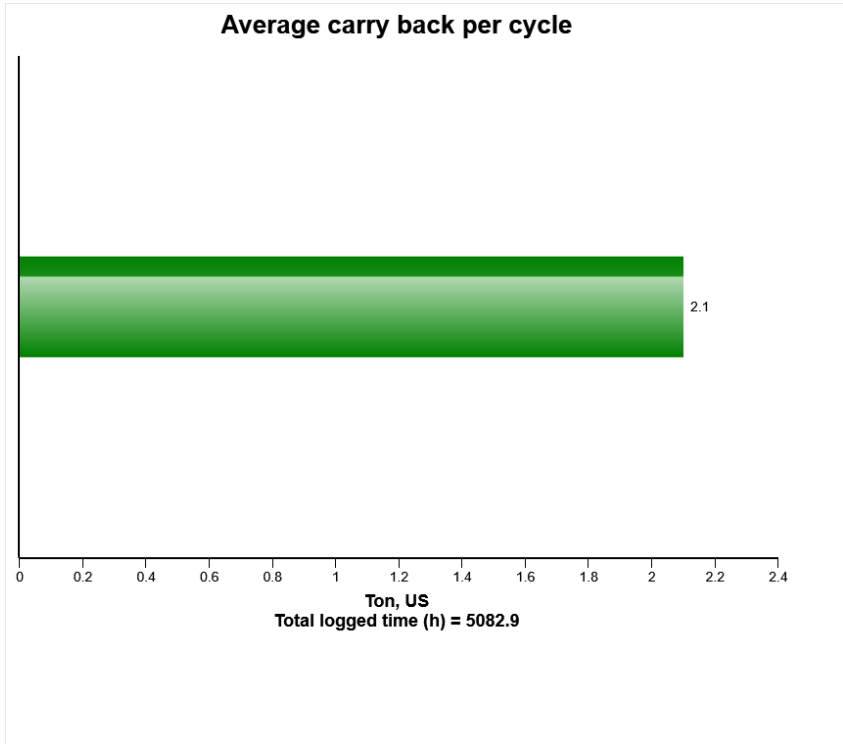
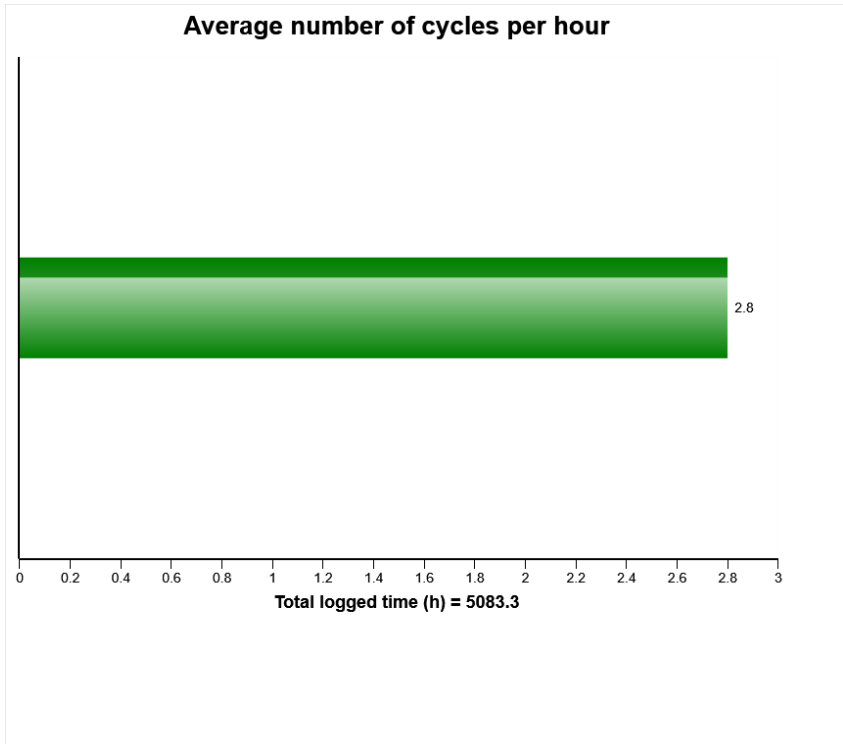
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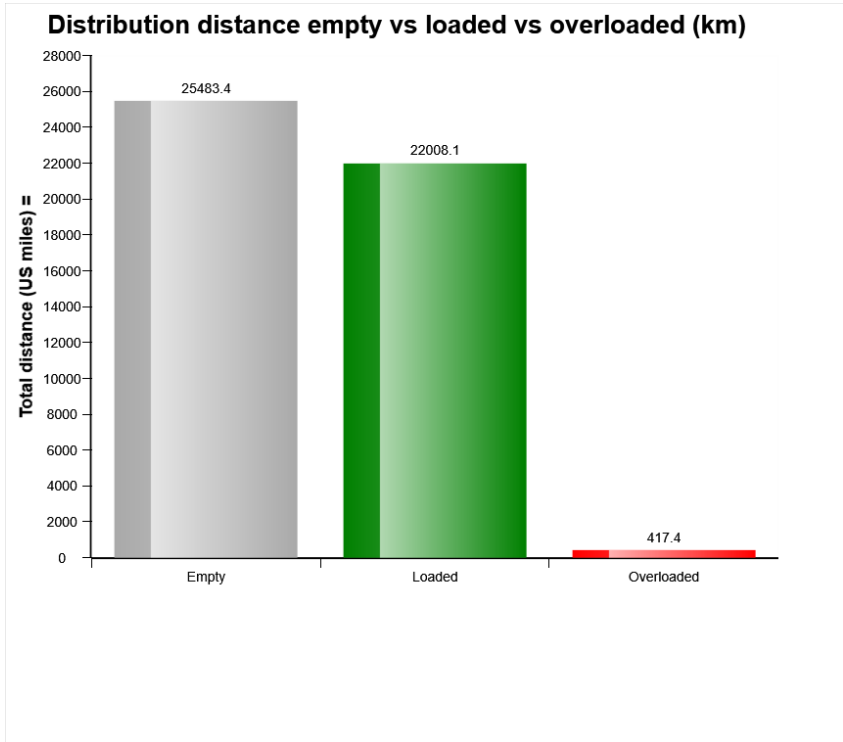
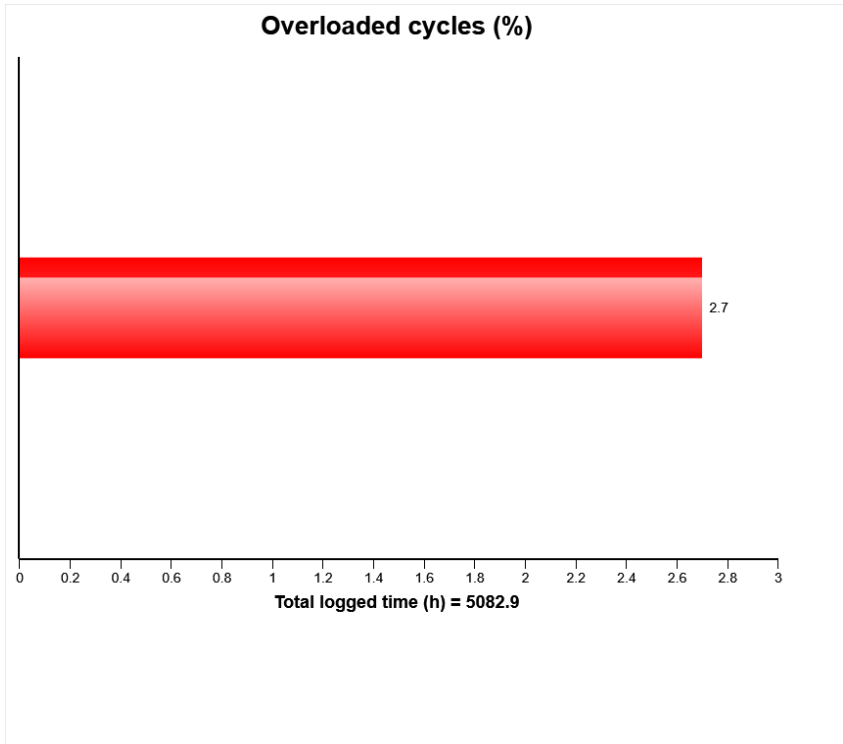
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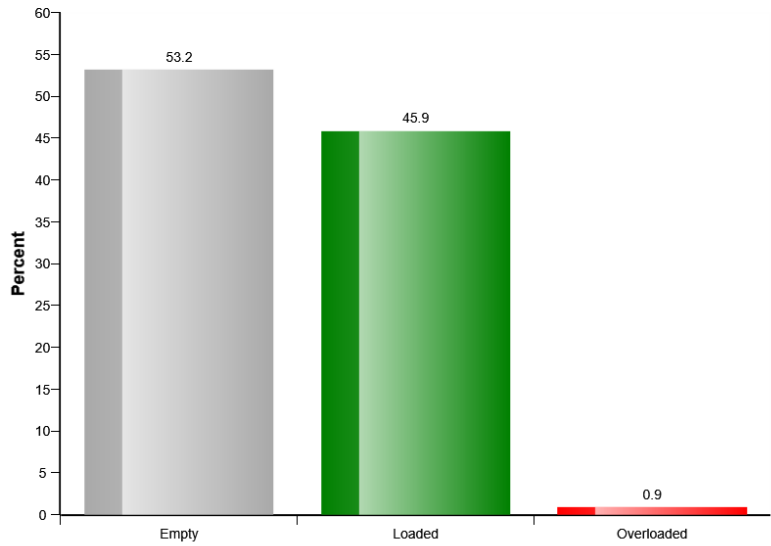


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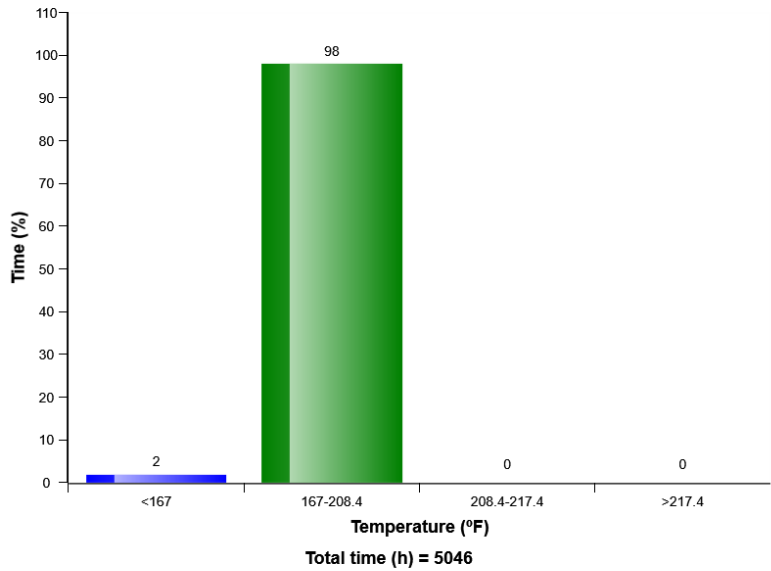


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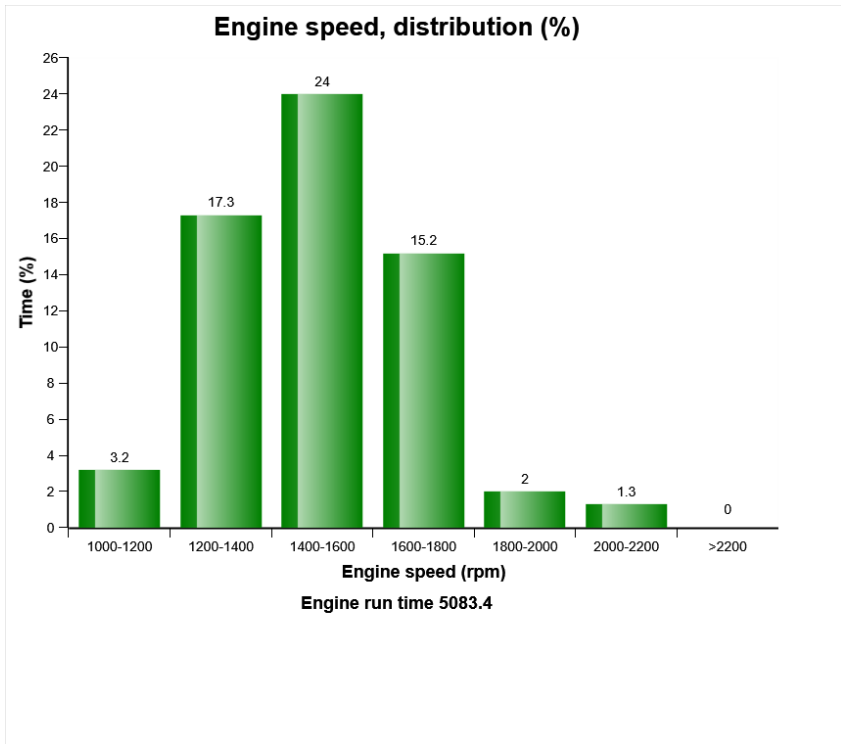
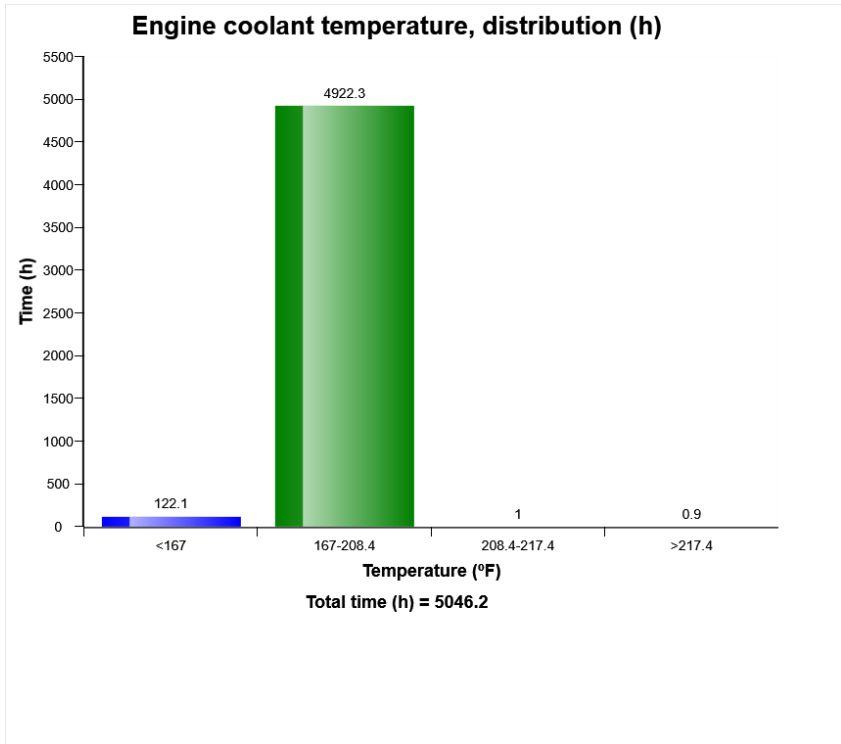
Distribution distance empty vs loaded vs overloaded (%)



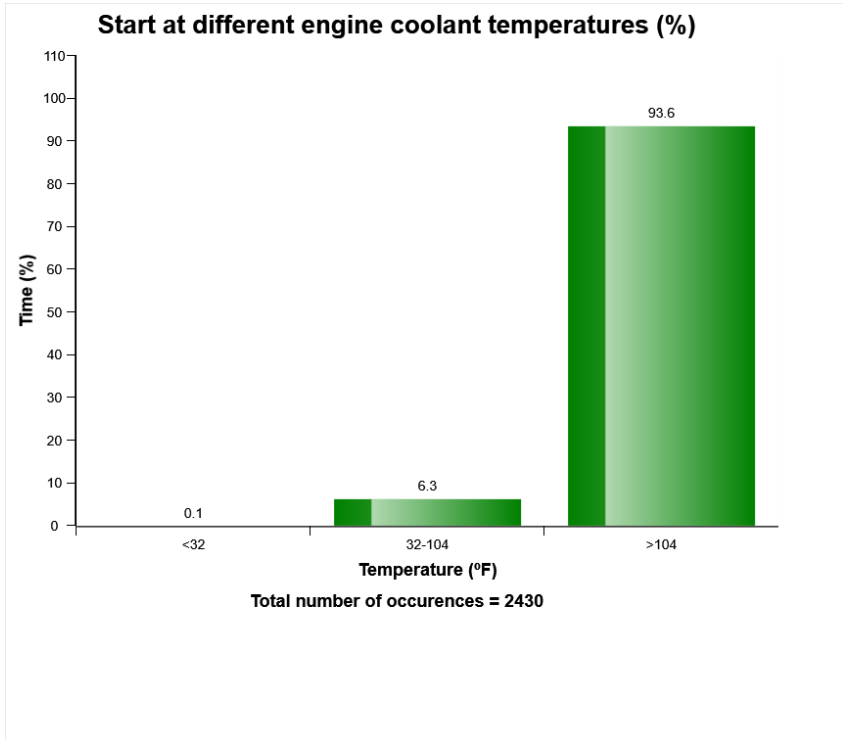
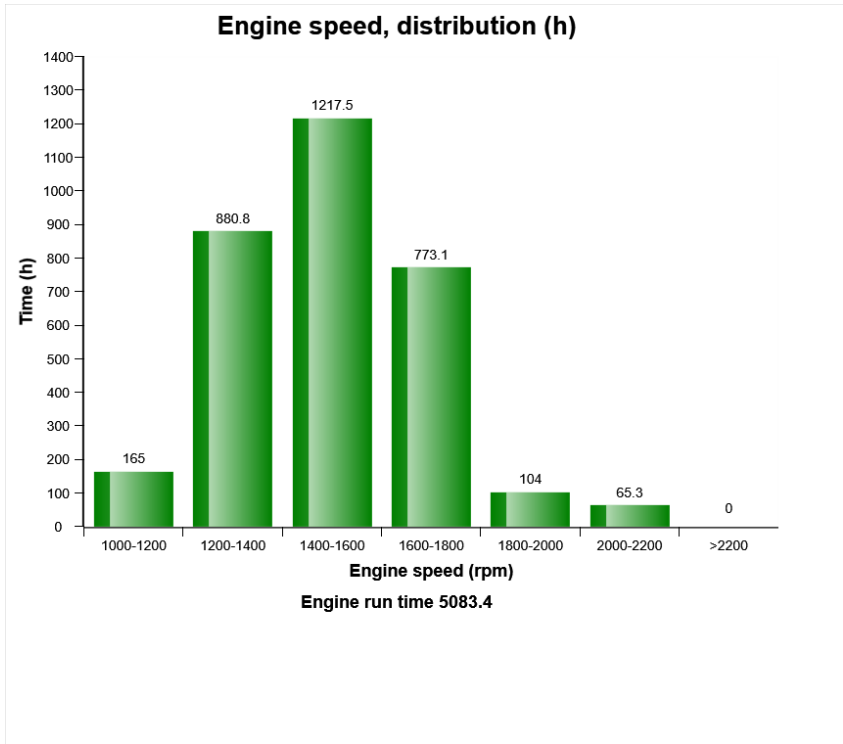
Engine coolant temperature, distribution (%)



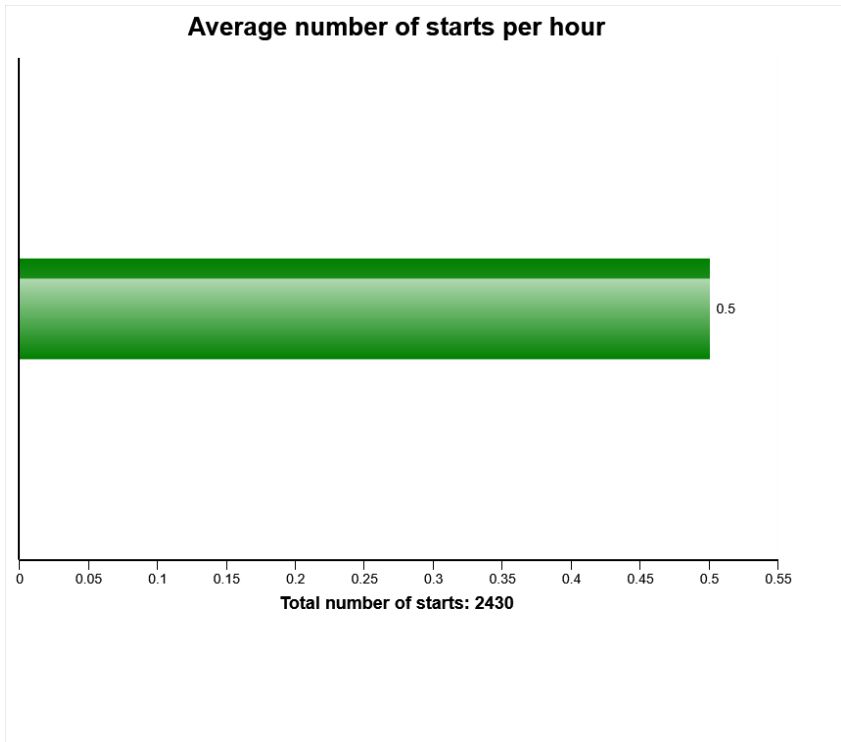
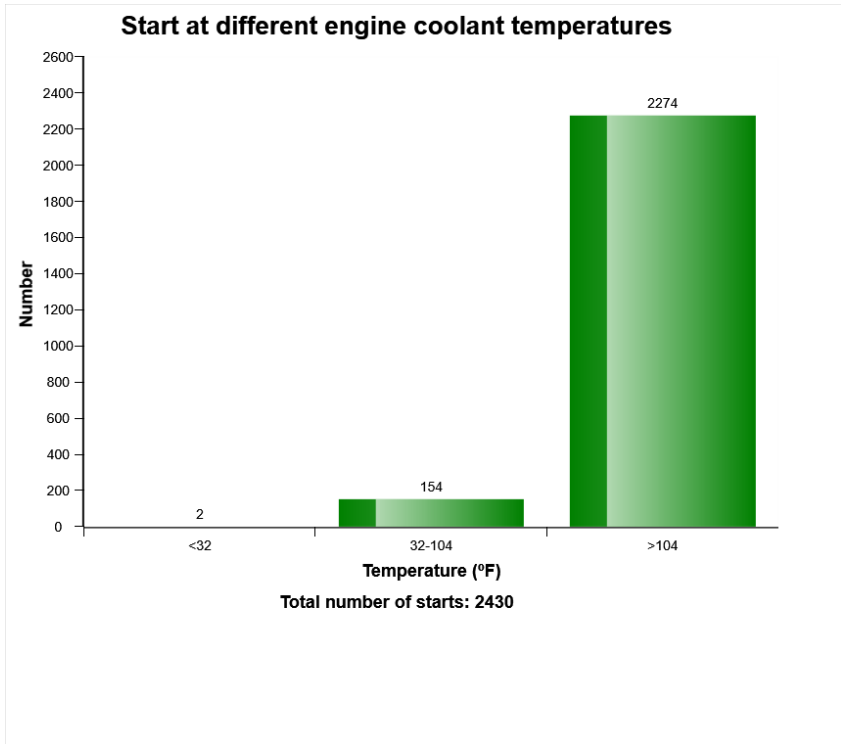
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A40G	341672	5083	21/03/2019

**High engine coolant temperature
Total number of occurrences = 16**

	Op hours	Year	Month	Day	Hour	Minute	Duration (sec)	Extreme (° F)
G	3196	2017	9	22	18	27	53	226
A	3214	2017	9	23	18	30	78	226
H	3214	2017	9	23	17	30	35	226
I	3214	2017	9	23	17	33	16	221
J	3214	2017	9	23	17	58	212	237
B	3215	2017	9	23	19	11	263	239
C	3216	2017	9	23	19	34	264	239
D	3216	2017	9	23	19	58	169	231
E	3461	2017	10	11	17	3	64	226
F	5046	2018	4	26	12	30	62	226



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341672	5083	21/03/2019

High engine oil temperature
Total number of occurrences = 0

	Op hours	Year	Month	Day	Hour	Minute	Duration (sec)	Extreme (° F)
A	0	2000	0	0	0	0	0	32
B	0	2000	0	0	0	0	0	32
C	0	2000	0	0	0	0	0	32
D	0	2000	0	0	0	0	0	32
E	0	2000	0	0	0	0	0	32
F	0	2000	0	0	0	0	0	32
G	0	2000	0	0	0	0	0	32
H	0	2000	0	0	0	0	0	32
I	0	2000	0	0	0	0	0	32
J	0	2000	0	0	0	0	0	32



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341672	5083	21/03/2019

Starter overheating
Total number of occurrences = 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
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



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341672	5083	21/03/2019

**Low Air filter pressure
Total number of occurrences = 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
0	2000	0	0	0	0	0



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341672	5083	21/03/2019

Regeneration ignored
Total number of ignored regenerations 0

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
* 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	341672	5083	21/03/2019

Regeneration aborted
Total number of occurrences = 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
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0	2000	0	0	0	0	0
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0	2000	0	0	0	0	0
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0	2000	0	0	0	0	0
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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	341672	5083	21/03/2019

Regeneration duration
Total number of occurrences = 24

Op hours	Year	Month	Day	Hour	Minute	Duration (min)
2001	2017	6	30	22	25	31
2001	2017	6	30	22	57	32
2501	2017	8	3	18	57	48
3002	2017	9	10	11	56	46
3503	2017	10	13	21	42	46
4004	2017	11	14	16	34	45
4505	2017	12	18	7	16	30
4505	2017	12	18	7	49	30
4626	2017	12	28	18	43	7
4626	2017	12	28	18	56	47
4627	2017	12	28	20	2	29
4698	2018	1	1	17	12	30
4700	2018	1	1	18	42	33
4710	2018	1	7	8	21	10
4710	2018	1	7	8	43	14
4711	2018	1	8	10	6	59
4721	2018	1	13	12	51	17
4721	2018	1	10	12	31	8
4844	2018	1	20	17	46	45
4950	2018	1	26	9	9	46



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341672	5083	21/03/2019

**Water level warning in water separator
Total number of occurrences = 0**

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
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	341672	5083	21/03/2019

**High voltage
Total number of occurences = 2**

Op hours	Year	Month	Day	Hour	Minute	Duration (sec)	Extreme value
3668	2017	10	23	0	54	40	31.5
1850	2017	6	20	13	3	5	29.7
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
0	2000	0	0	0	0	0	0.0



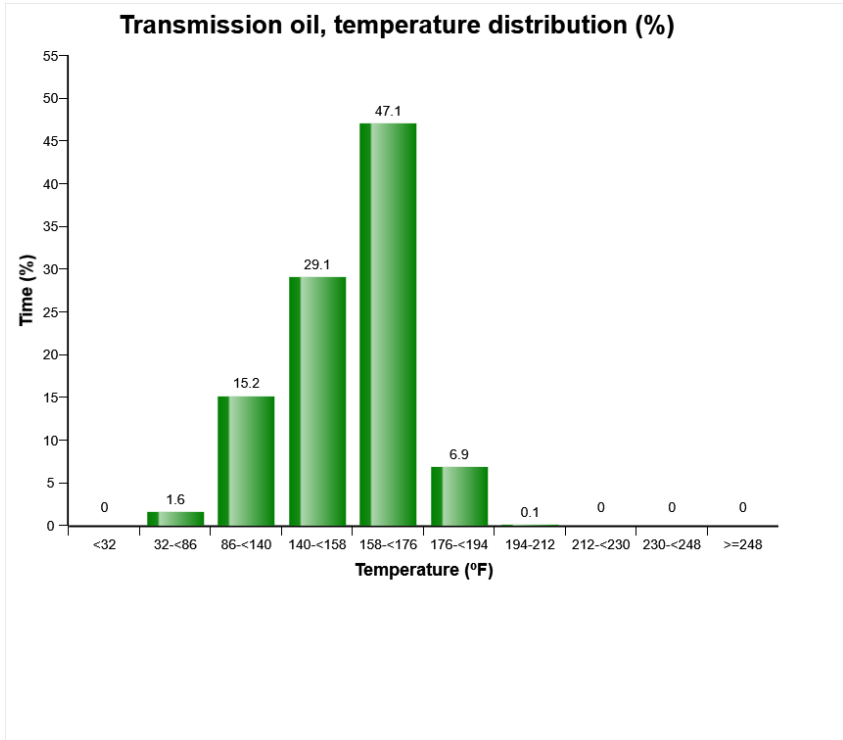
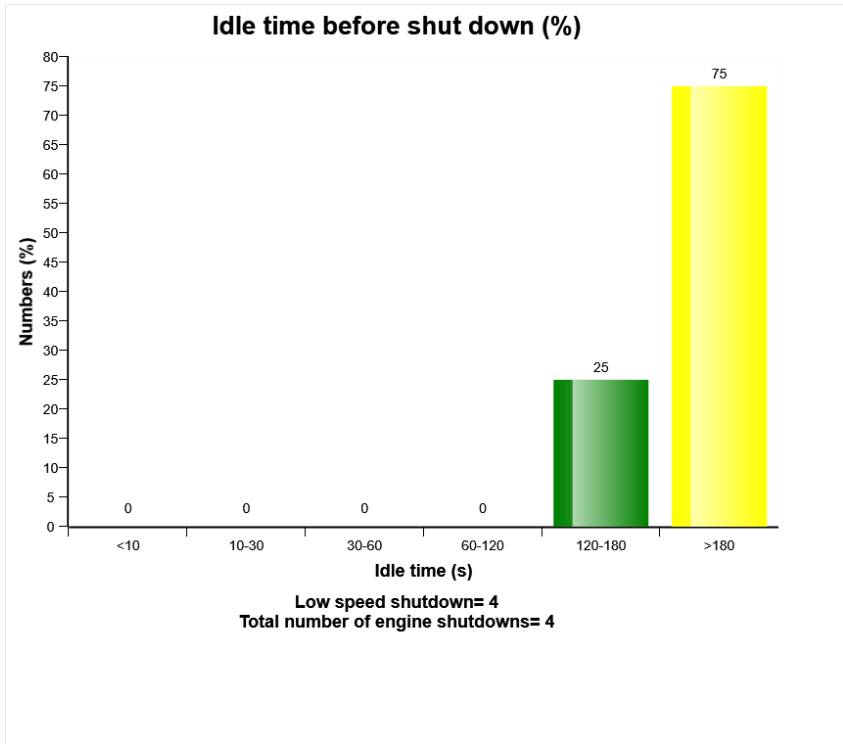
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Low voltage
Total number of occurrences = 0

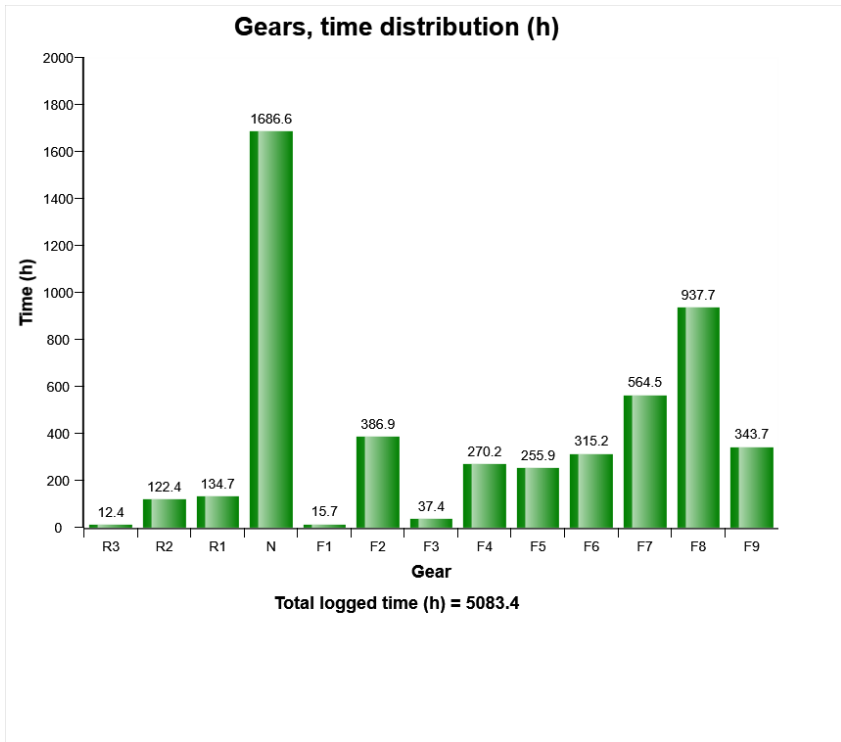
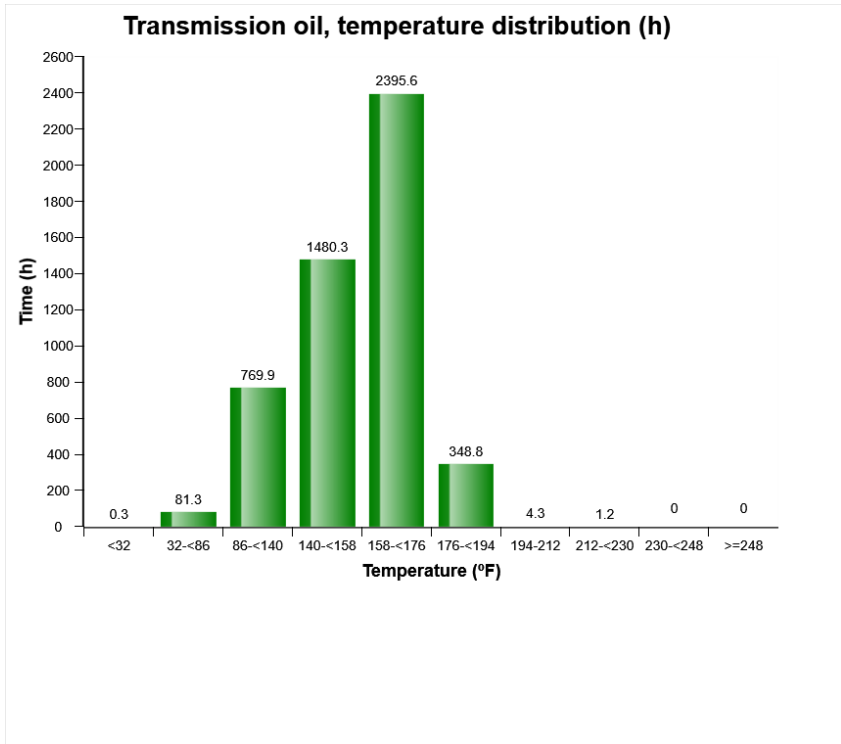
Op hours	Year	Month	Day	Hour	Minute	Duration (sec)	Extreme value
0	2000	0	0	0	0	0	0.0
0	2000	0	0	0	0	0	0.0
0	2000	0	0	0	0	0	0.0
0	2000	0	0	0	0	0	0.0
0	2000	0	0	0	0	0	0.0
0	2000	0	0	0	0	0	0.0
0	2000	0	0	0	0	0	0.0
0	2000	0	0	0	0	0	0.0
0	2000	0	0	0	0	0	0.0
0	2000	0	0	0	0	0	0.0
0	2000	0	0	0	0	0	0.0
0	2000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



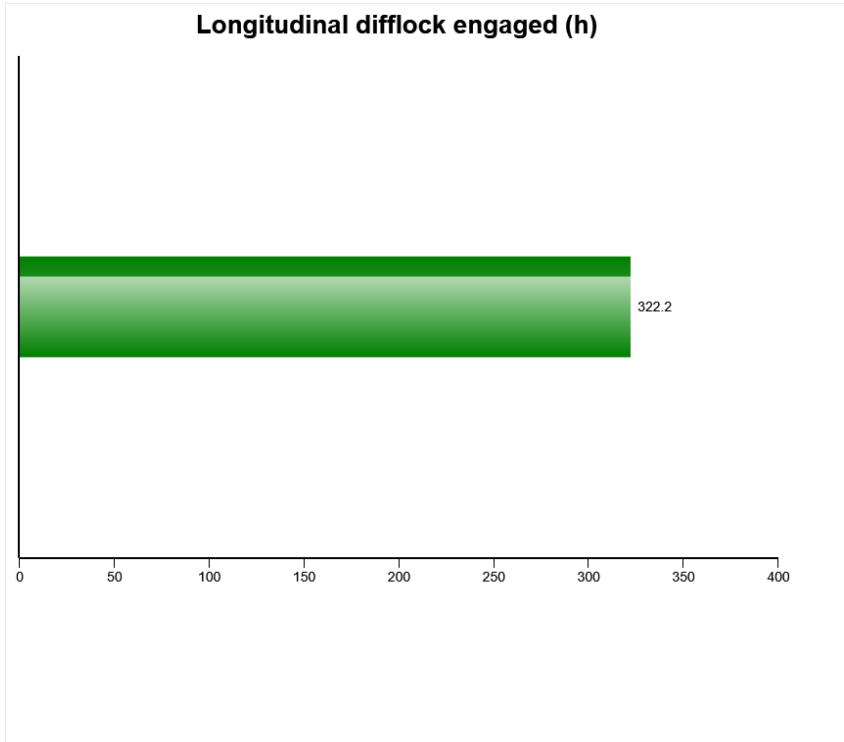
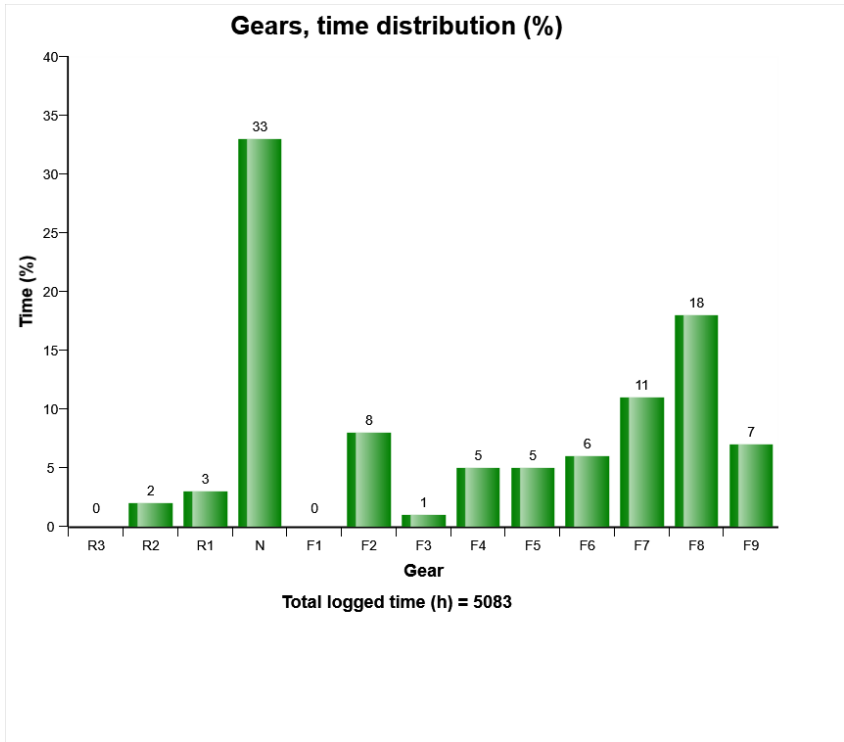
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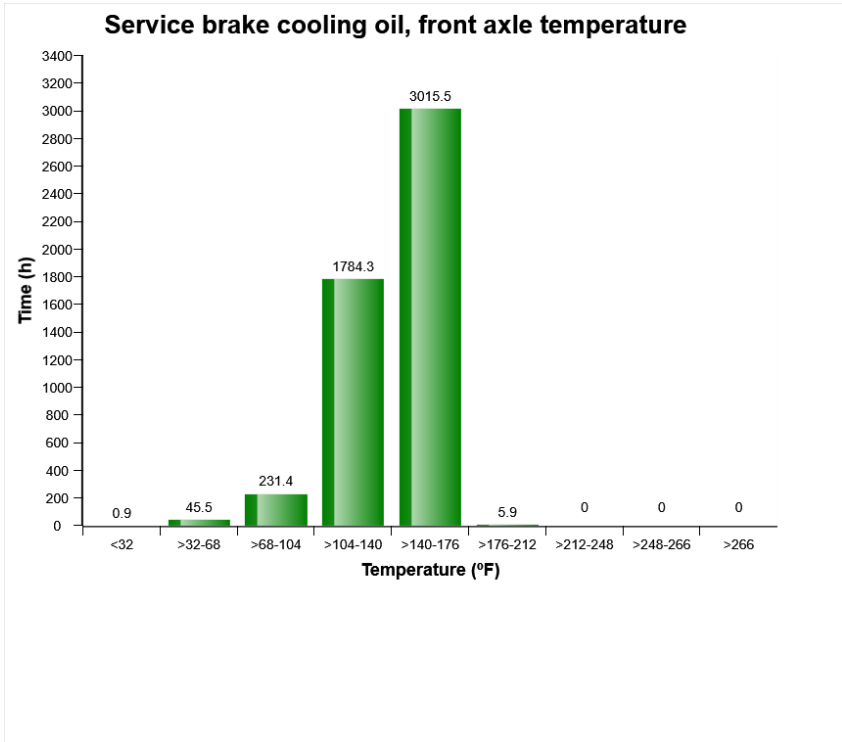
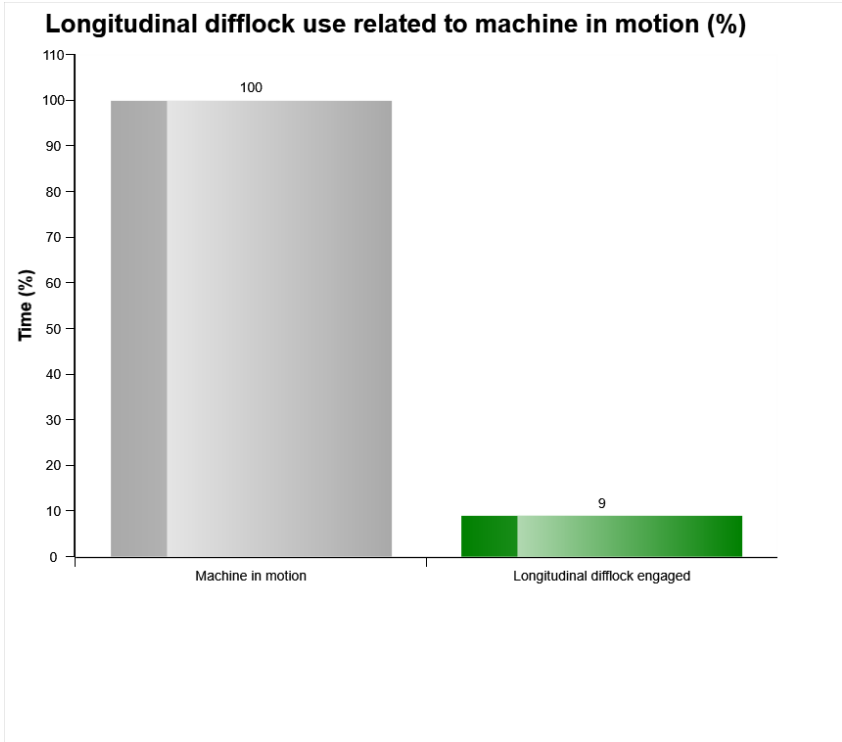
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Transmission oil pressure low
Total number of occurrences = 3

Op hours	Year	Month	Day	Hour	Minute	Duration (sec)	Extreme (psi)
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
1	2016	11	29	16	11	0	0
3855	2017	11	2	7	56	0	1600
4317	2017	11	30	23	39	0	1185

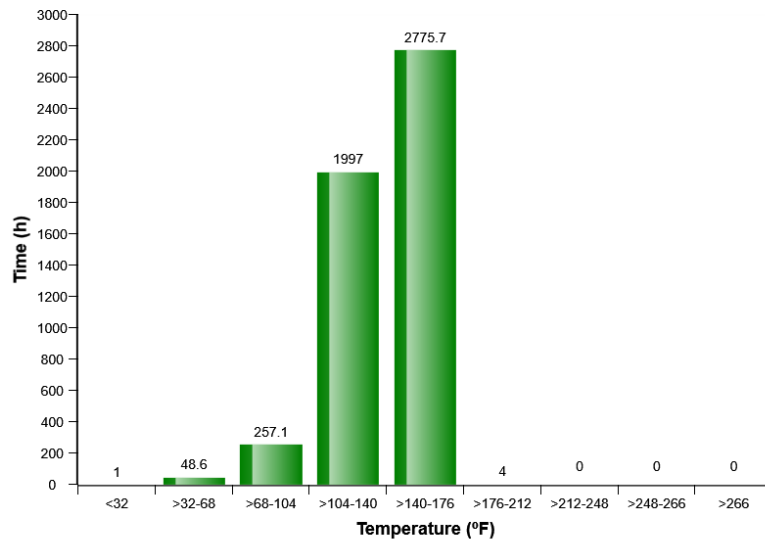


Machine model	SerialNo	Operating Hours	Reading Date
A40G	341672	5083	21/03/2019

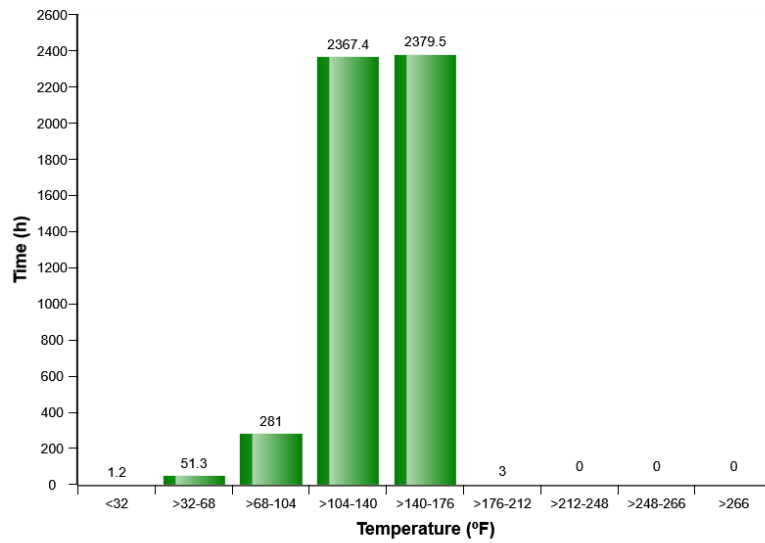


Machine model	SerialNo	Operating Hours	Reading Date
A40G	341672	5083	21/03/2019

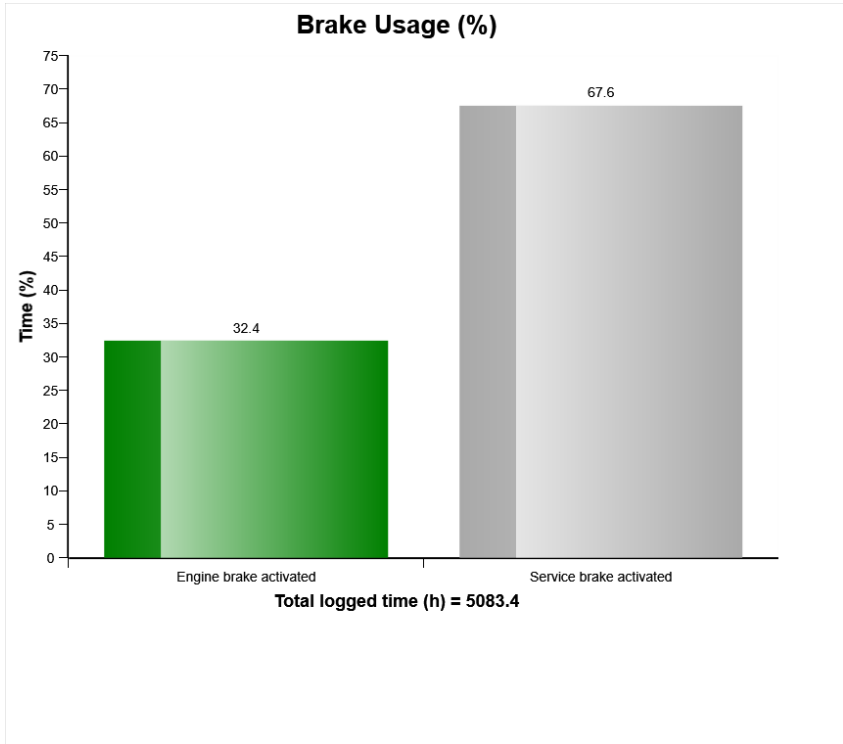
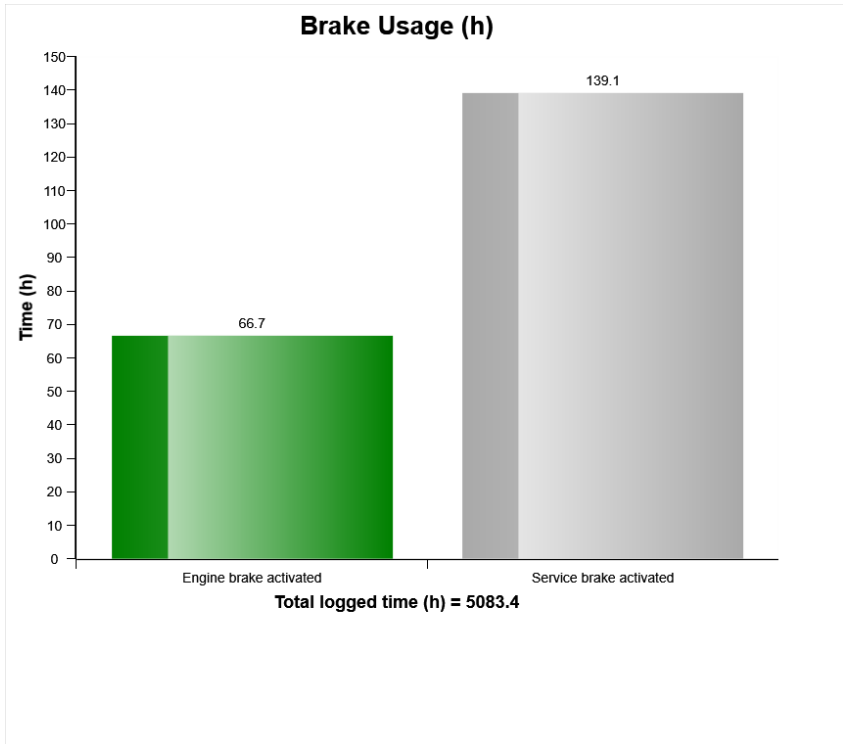
Service brake cooling oil, first bogie axle temperature



Service brake cooling oil, second bogie axle temperature



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341672	5083	21/03/2019



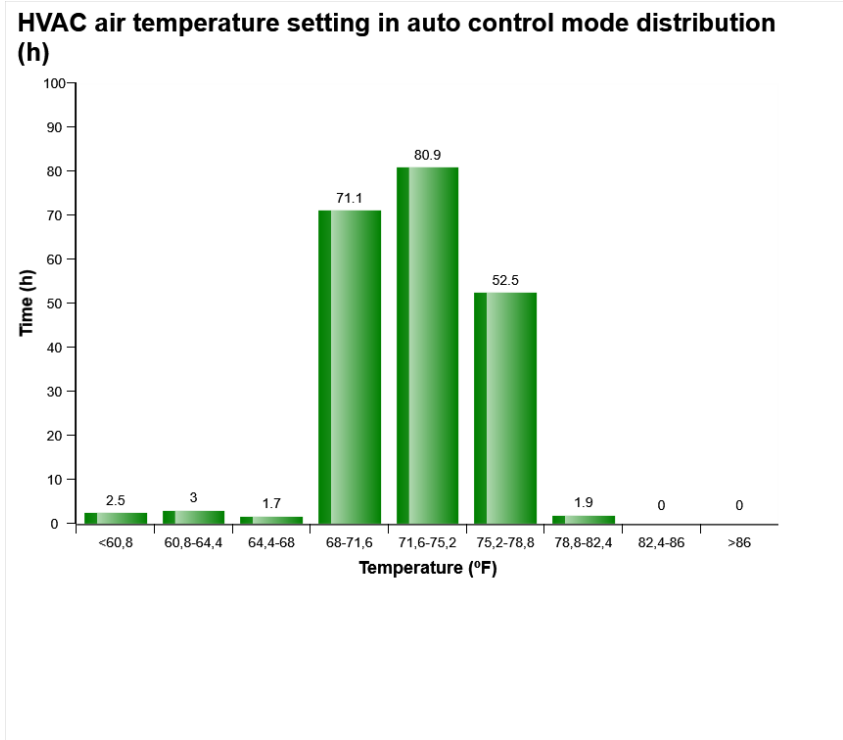
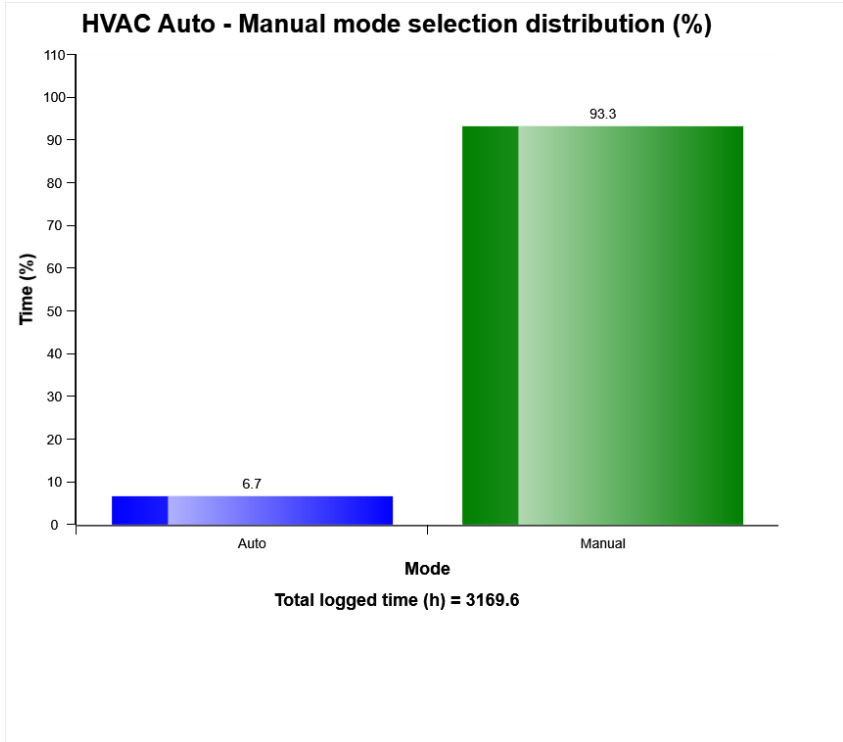
Machine model	SerialNo	Operating Hours	Reading Date
A40G	341672	5083	21/03/2019

Low Brake Servo Pressure
Total number of occurrences = 1

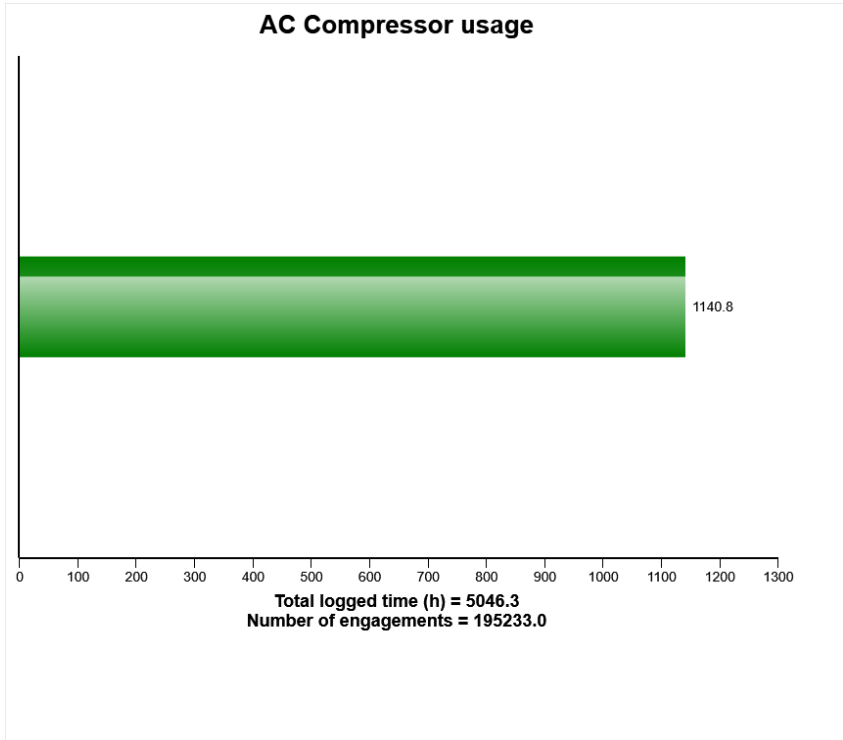
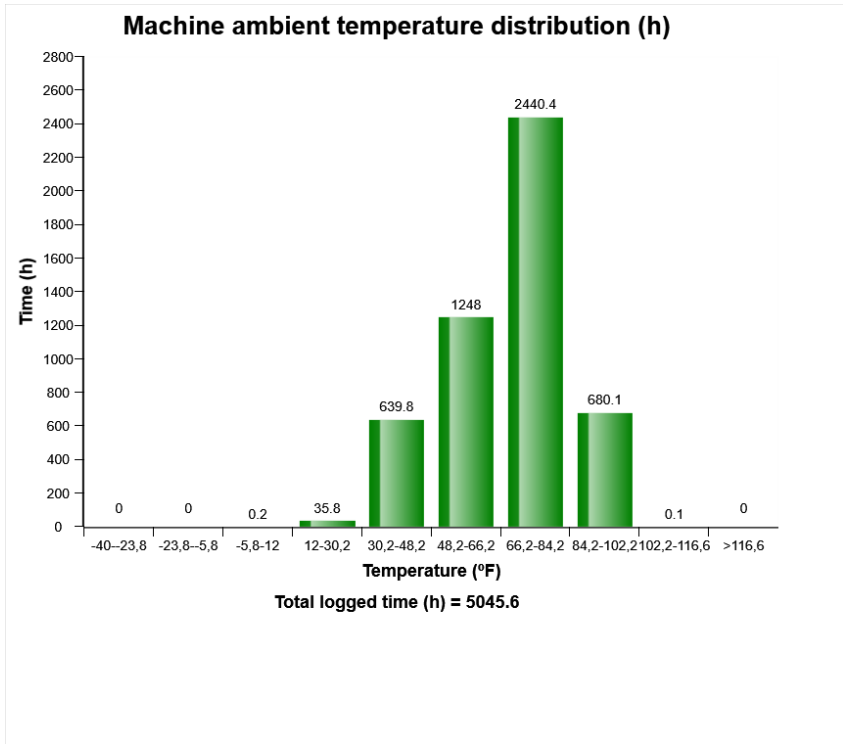
	Op hours	Year	Month	Day	Hour	Minute	Duration (sec)	Extreme (psi)
A	0	2016	11	3	10	28	0	2200
B	0	2000	0	0	0	0	0	0
C	0	2000	0	0	0	0	0	0
D	0	2000	0	0	0	0	0	0
E	0	2000	0	0	0	0	0	0
F	0	2000	0	0	0	0	0	0
G	0	2000	0	0	0	0	0	0
H	0	2000	0	0	0	0	0	0
I	0	2000	0	0	0	0	0	0
J	0	2000	0	0	0	0	0	0



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341672	5083	21/03/2019

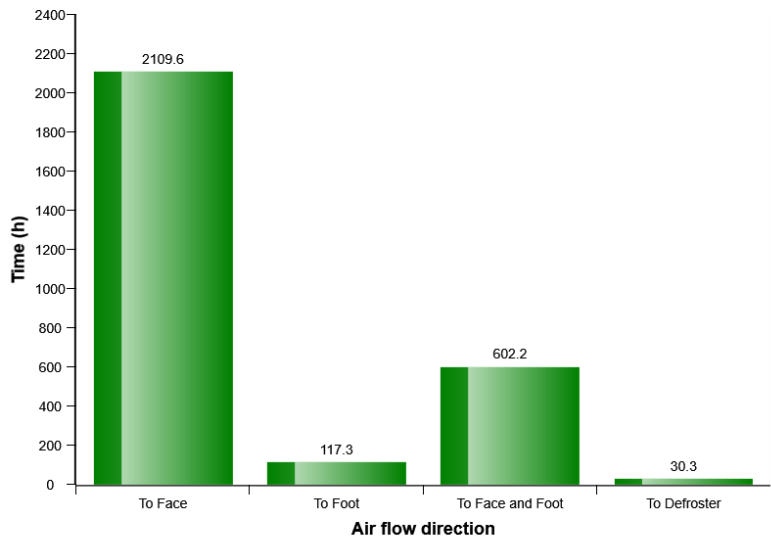


Machine model	SerialNo	Operating Hours	Reading Date
A40G	341672	5083	21/03/2019

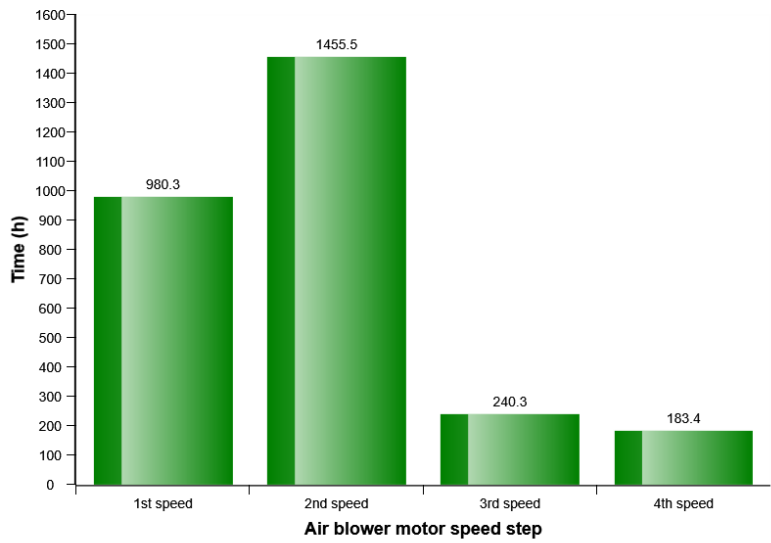


Machine model	SerialNo	Operating Hours	Reading Date
A40G	341672	5083	21/03/2019

HVAC air flow direction in manual mode distribution (h)



HVAC air blower motor speed in manual mode distribution (h)



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341672	5083	21/03/2019

AC High Pressure
Total number of occurrences = 133

Op hours	Year	Month	Day	Hours	Minute	Duration (sec)	Extreme (° F)
3427	2017	10	8	12	9	41	86
3427	2017	10	8	12	5	40	86
3432	2017	10	8	18	9	7	82
3432	2017	10	8	17	37	39	84
3444	2017	10	9	9	51	12	82
3456	2017	10	9	22	46	68	79
3457	2017	10	9	23	37	33	79
3480	2017	10	11	11	39	13	82
3485	2017	10	11	16	58	48	86
3502	2017	10	12	14	47	14	82
3626	2017	10	19	12	54	14	77
3627	2017	10	19	14	19	8	77
3627	2017	10	19	13	33	5	77
5056	2018	4	18	12	30	95	81
5058	2018	4	18	14	26	134	86
5058	2018	4	18	13	59	191	84
5059	2018	4	18	15	3	167	88
5059	2018	4	18	14	50	184	86
5081	2018	4	26	12	26	243	81
5081	2018	4	26	13	9	299	82



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341672	5083	21/03/2019

**AC Boiling Protection
Number of engagements = 0**

Op hours	Year	Month	Day	Hour	Minute	Duration (sec)	Extreme (° F)
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341672	5083	21/03/2019

AC System Cut Out Pressure
Total number of occurrences = 66

Op hours	Year	Month	Day	Hour	Minute	Duration (sec)	Extreme (° F)
3238	2017	9	23	19	12	190	81
3238	2017	9	23	19	36	109	81
3238	2017	9	23	19	55	60	79
3374	2017	10	5	11	56	40	81
3427	2017	10	8	12	5	25	86
3427	2017	10	8	12	9	29	86
3432	2017	10	8	17	37	30	84
3444	2017	10	9	9	51	5	82
3456	2017	10	9	22	46	59	79
3457	2017	10	9	23	37	16	79
3485	2017	10	11	16	59	34	86
4742	2001	10	24	19	3	1035	30
4743	2001	10	25	20	36	371	32
5056	2018	4	18	12	30	86	81
5058	2018	4	18	14	27	68	86
5058	2018	4	18	13	59	179	84
5059	2018	4	18	15	5	51	88
5059	2018	4	18	14	50	175	86
5081	2018	4	26	12	27	191	81
5082	2018	4	26	13	13	33	82



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341672	5083	21/03/2019

