VOLVO CONSTRUCTION EQUIPMENT

MATRIS REPORT

Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

Company name	Dealer	Report Issuer
Flagler Davie FL		
Contact name	**Technician**	**Primary Application**
	rhilton	Dozing, Land clearing (e.g. coal, chips)
Site	**Workorder**	**Ground Condition**

MATRIS Reading, Summary / Recommendation

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Main equipment	Type	Equipment
	Tyre size/class	
	Main Attachment	
	Extra Counterweight	
	Ballast	
	Chains	
	Boom Suspension System	
	Attachment Interface	
	Volume m3 (yd3) / Area m2 (ft2)	
	Attachment make	

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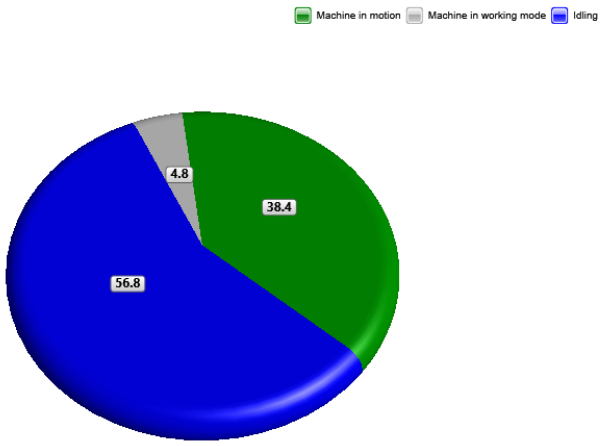
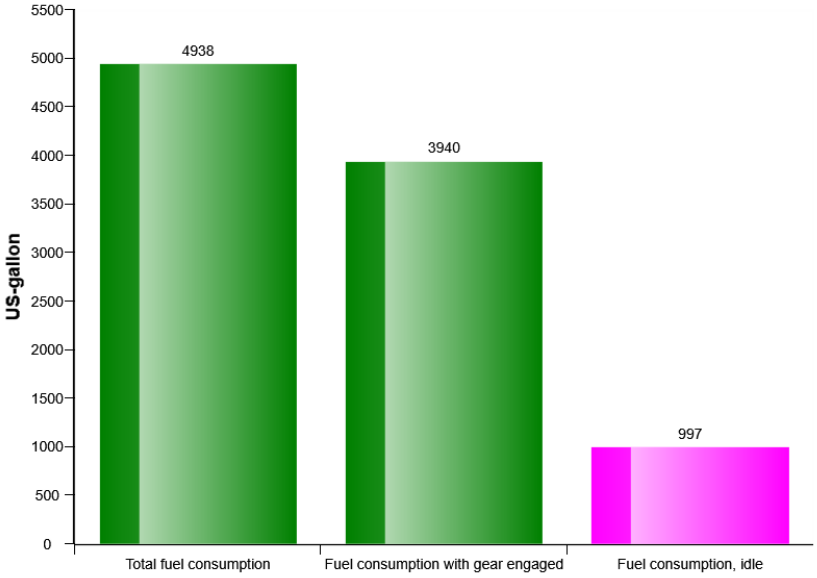
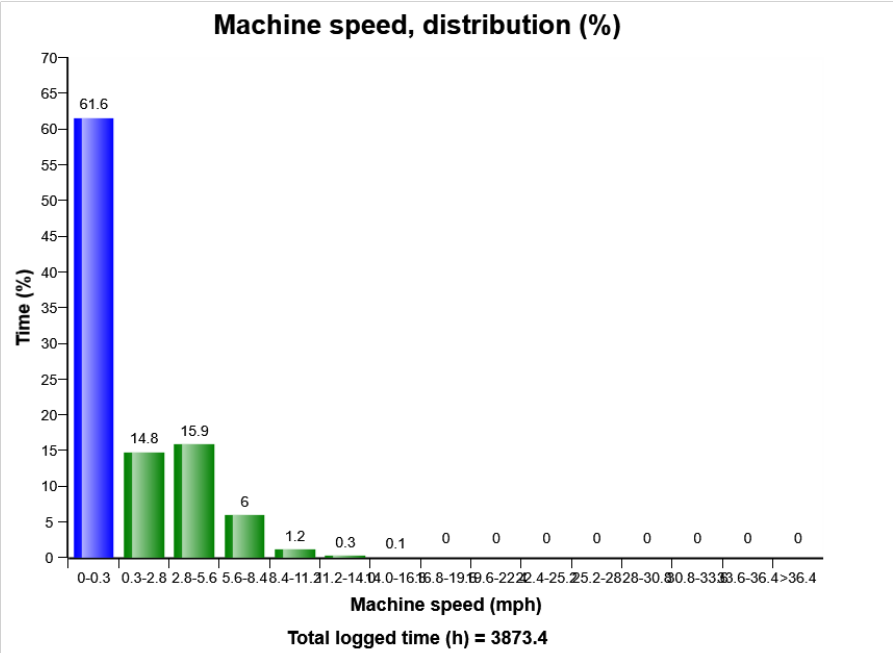
Machine utilization (%)

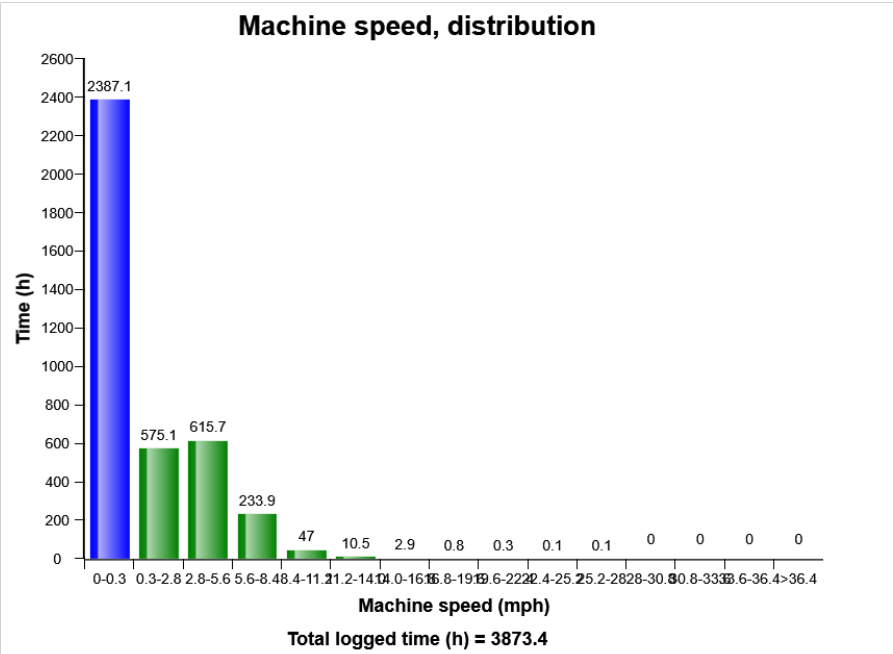


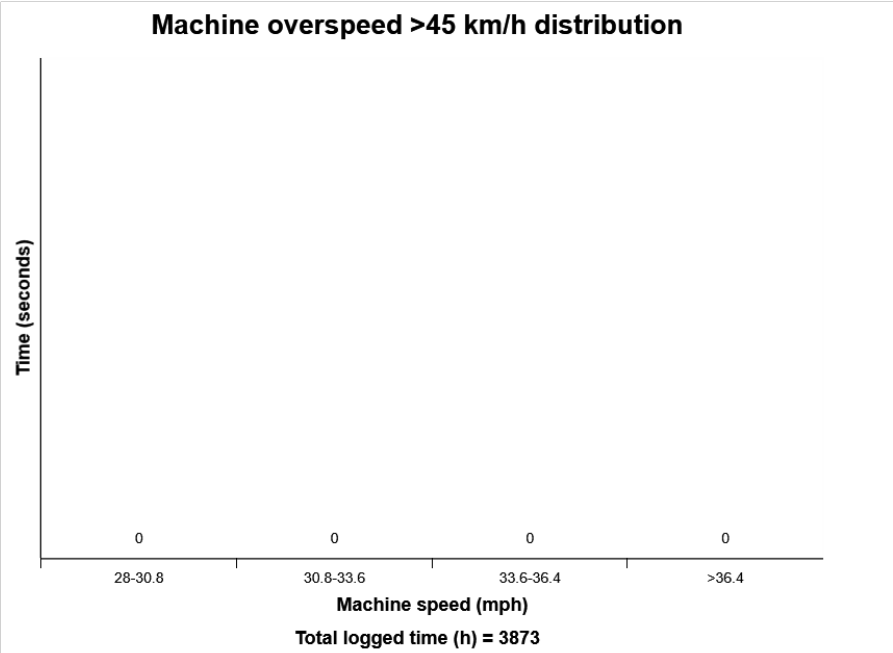
Total time (h) = 3873.4

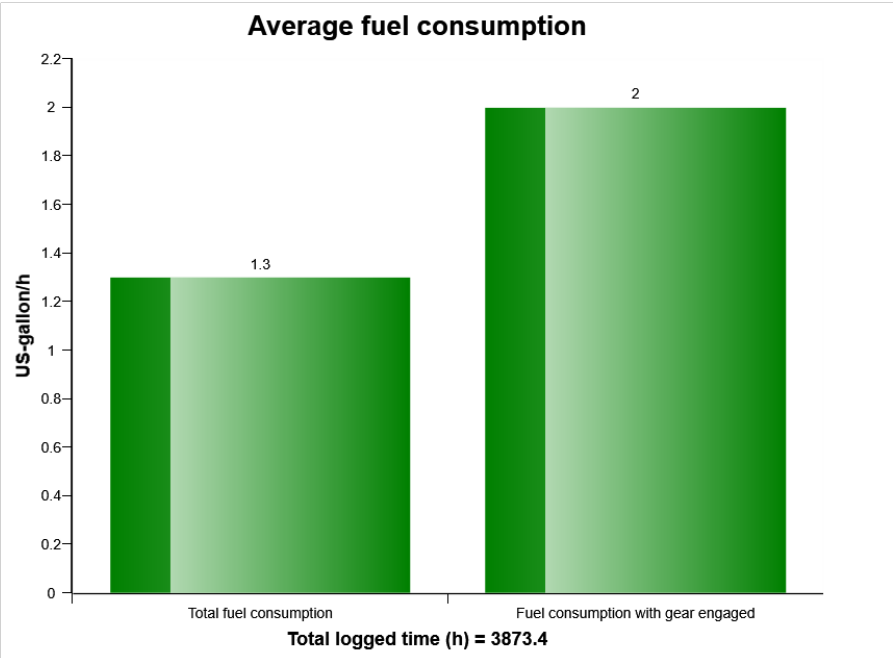
Fuel consumption



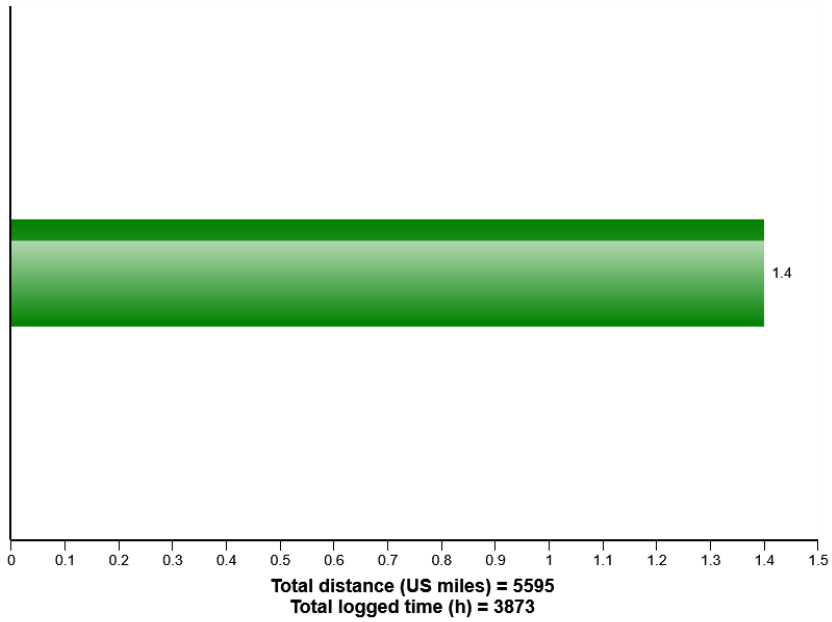

Machine speed, distribution (%)
Time (%)
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
61.6
14.8
15.9
6
1.2
0.3
0.1
0
0
0
0
0
0
0
0
0-0.3
0.3-2.8
2.8-5.6
5.6-8.4
8.4-11.2
11.2-14.0
14.0-16.8
16.8-19.6
19.6-22.4
22.4-25.2
25.2-28
28-30.8
30.8-33.6
33.6-36.4
>36.4
Machine speed (mph)
Total logged time (h) = 3873.4


Machine speed, distribution
Time (h)
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
2387.1
575.1
615.7
233.9
47
10.5
2.9
0.8
0.3
0.1
0.1
0
0
0
0
0-0.3
0.3-2.8
2.8-5.6
5.6-8.4
8.4-11.2
11.2-14.0
14.0-16.8
16.8-19.6
19.6-22.4
22.4-25.2
25.2-28
28-30.8
30.8-33.6
33.6-36.4
>36.4
Machine speed (mph)
Total logged time (h) = 3873.4


Machine overspeed >45 km/h distribution
Time (seconds)
0
0
0
0
28-30.8
30.8-33.6
33.6-36.4
>36.4
Machine speed (mph)
Total logged time (h) = 3873

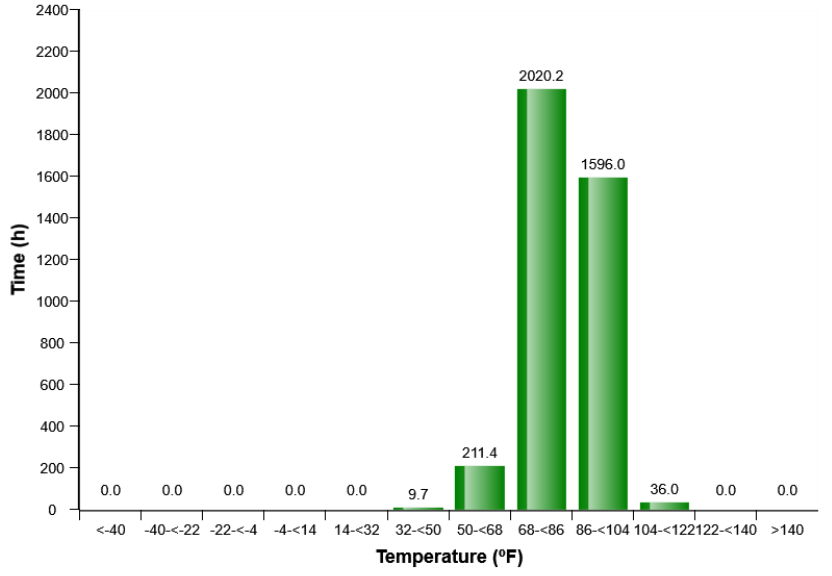

Average fuel consumption
US-gallon/h
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1.3
2
Total fuel consumption
Fuel consumption with gear engaged
Total logged time (h) = 3873.4

Average speed and distance

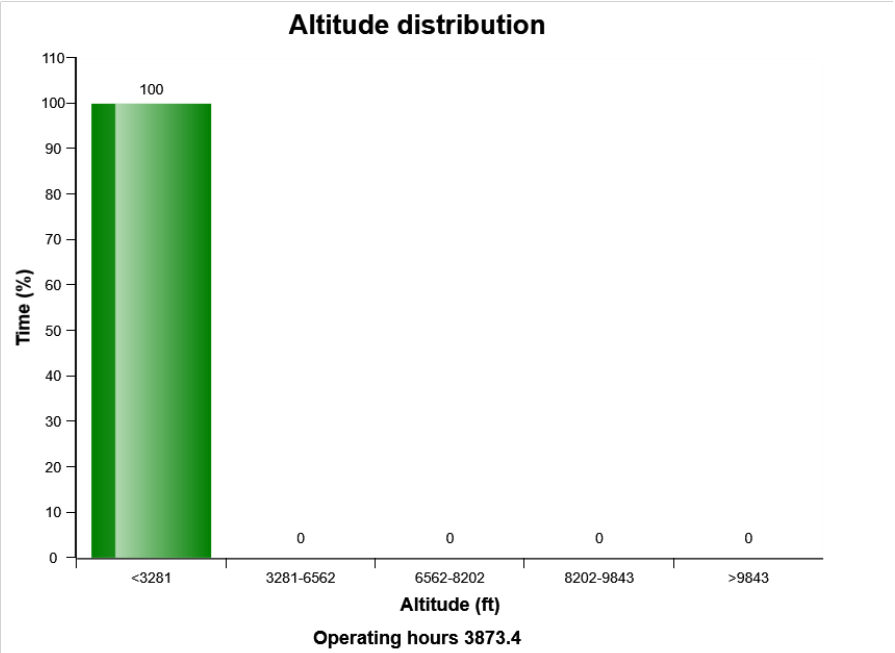


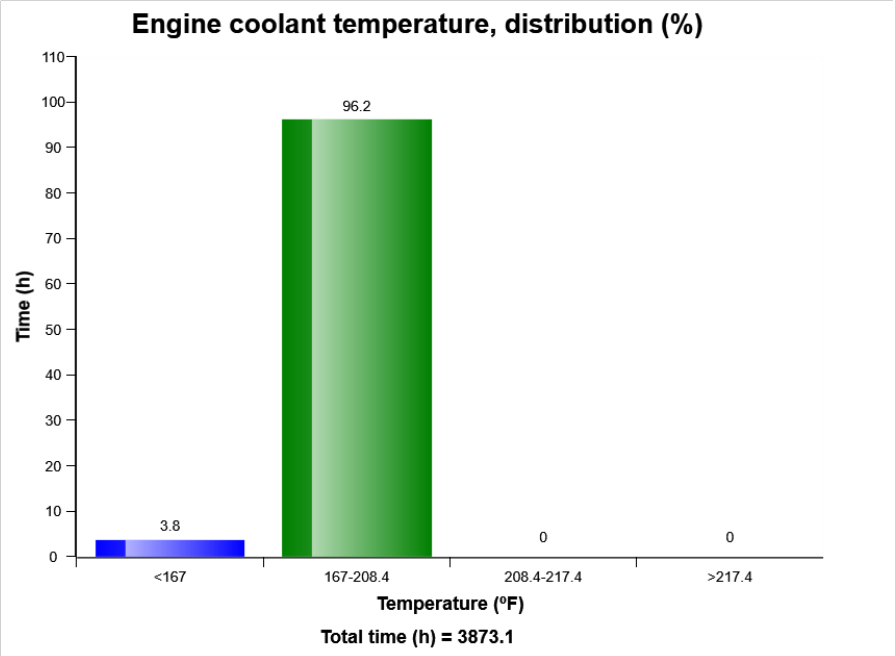
Total distance (US miles) = 5595
Total logged time (h) = 3873

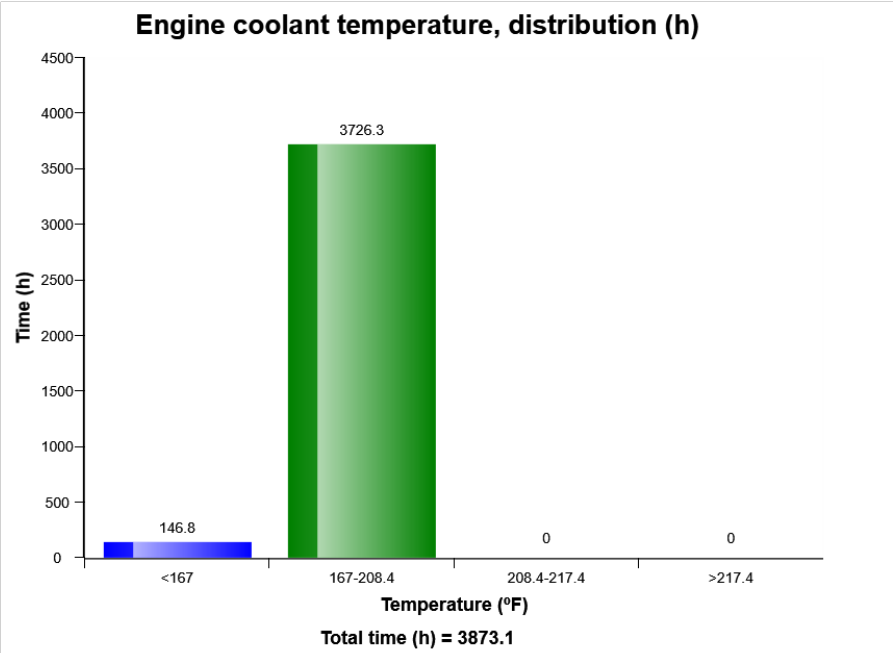
Machine ambient temperature distribution (h)

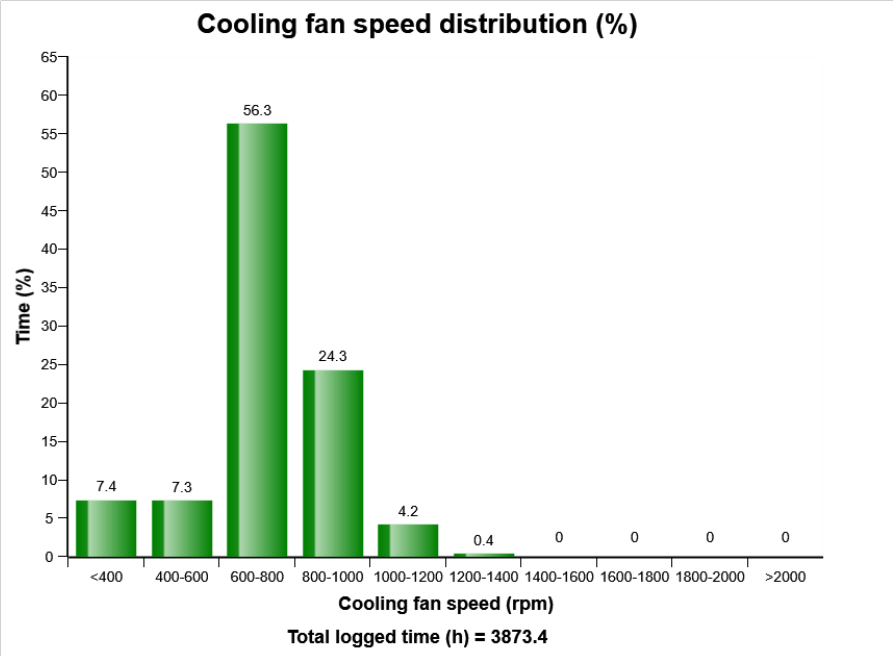


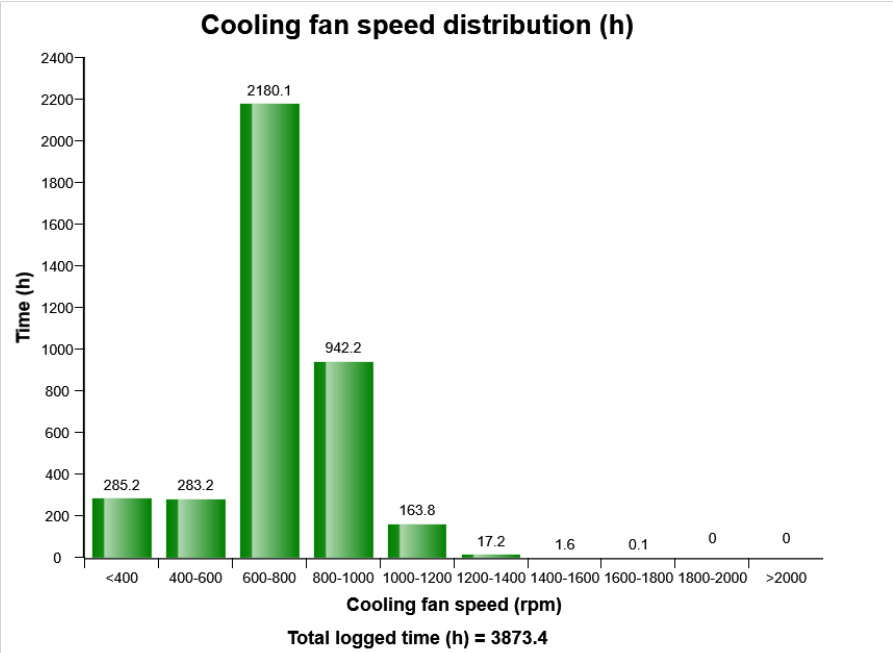
Total logged time (h) = 3873.3

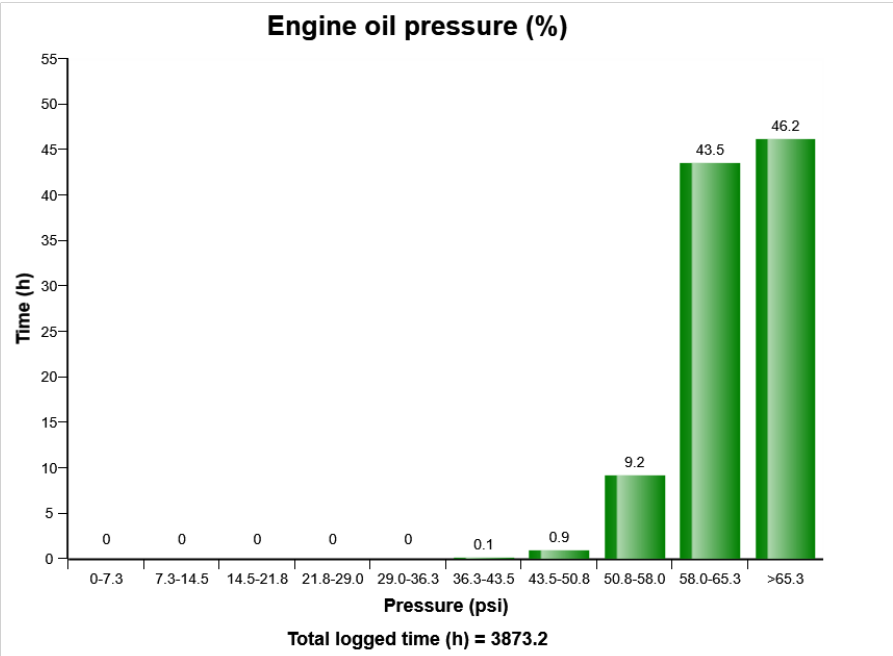

Altitude distribution
Time (%)
110
100
90
80
70
60
50
40
30
20
10
0
100
0
0
0
0
<3281
3281-6562
6562-8202
8202-9843
>9843
Altitude (ft)
Operating hours 3873.4

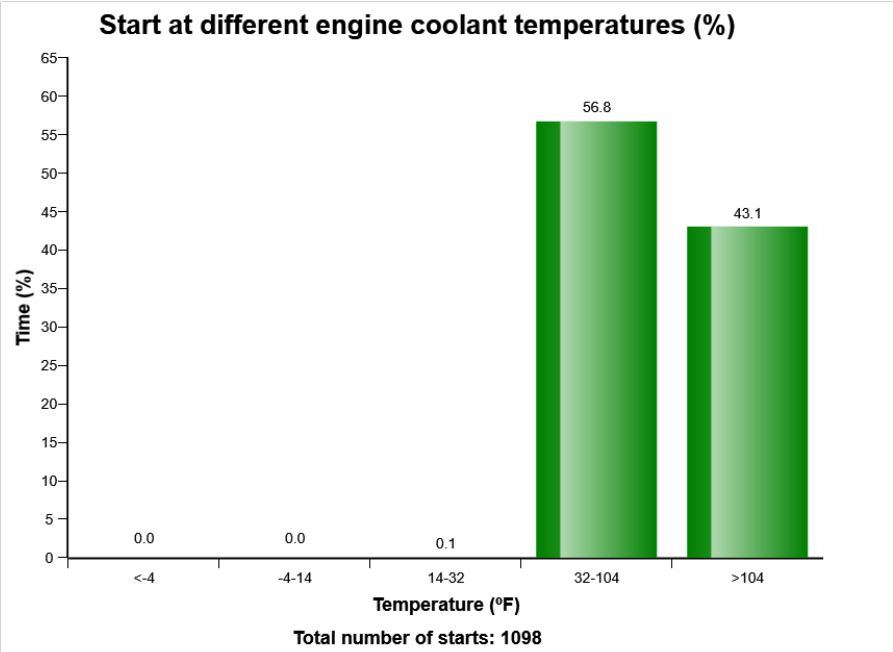

Engine coolant temperature, distribution (%)
Time (h)
110
100
90
80
70
60
50
40
30
20
10
0
3.8
96.2
0
0
<167
167-208.4
208.4-217.4
>217.4
Temperature (ºF)
Total time (h) = 3873.1

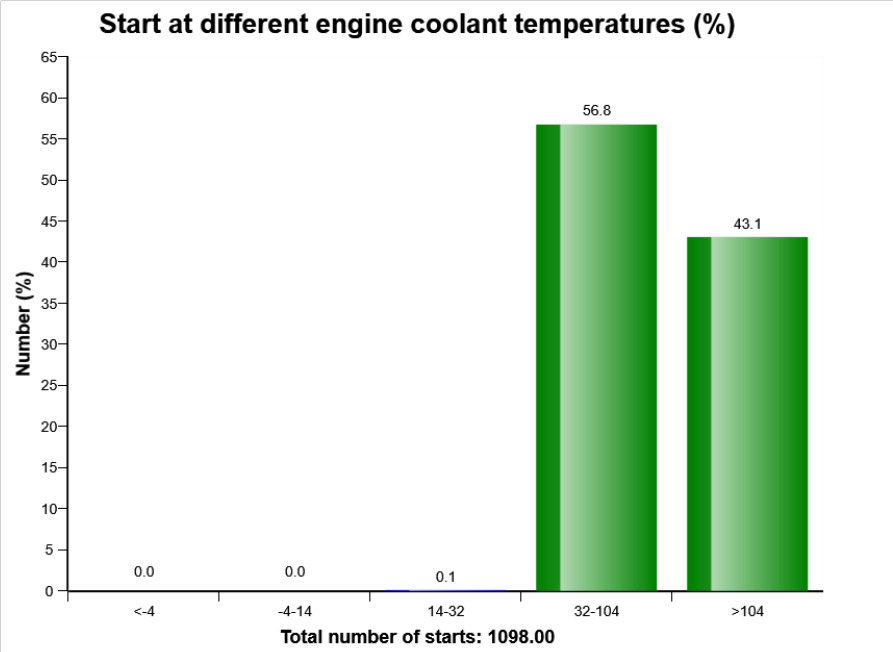

Engine coolant temperature, distribution (h)
Time (h)
4500
4000
3500
3000
2500
2000
1500
1000
500
0
146.8
3726.3
0
0
<167
167-208.4
208.4-217.4
>217.4
Temperature (°F)
Total time (h) = 3873.1

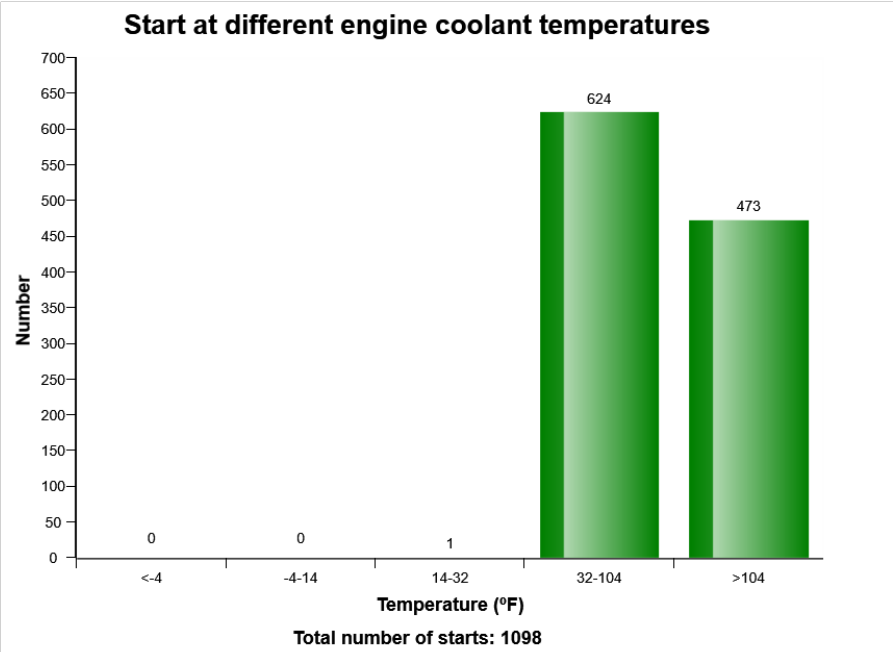

Cooling fan speed distribution (%)
Time (%)
65
60
55
50
45
40
35
30
25
20
15
10
5
0
7.4
7.3
56.3
24.3
4.2
0.4
0
0
0
0
<400
400-600
600-800
800-1000
1000-1200
1200-1400
1400-1600
1600-1800
1800-2000
>2000
Cooling fan speed (rpm)
Total logged time (h) = 3873.4

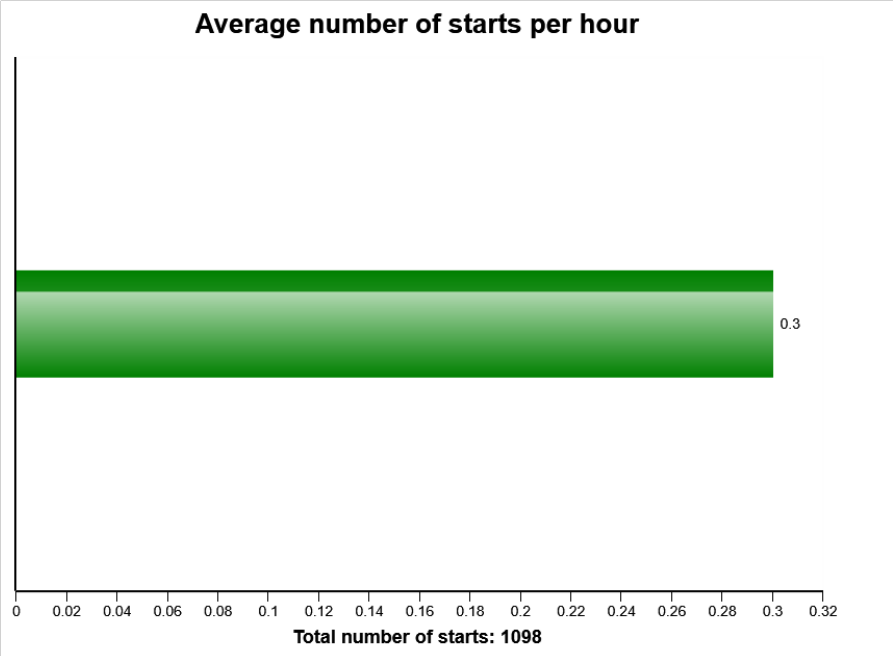

Cooling fan speed distribution (h)
Time (h)
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
285.2
283.2
2180.1
942.2
163.8
17.2
1.6
0.1
0
0
<400
400-600
600-800
800-1000
1000-1200
1200-1400
1400-1600
1600-1800
1800-2000
>2000
Cooling fan speed (rpm)
Total logged time (h) = 3873.4

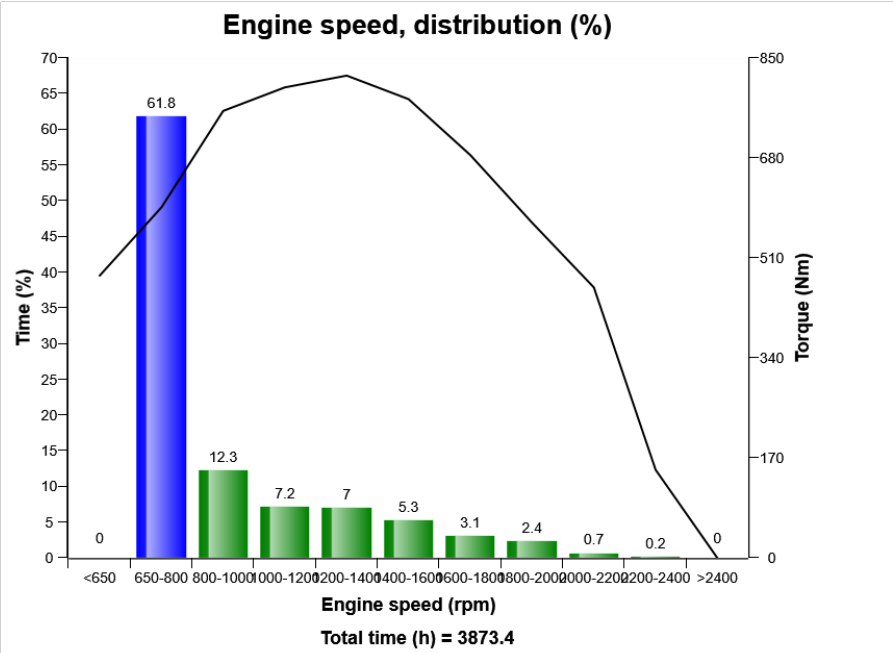

Engine oil pressure (%)
Time (h)
55
50
45
40
35
30
25
20
15
10
5
0
0
0
0
0
0
0.1
0.9
9.2
43.5
46.2
0-7.3
7.3-14.5
14.5-21.8
21.8-29.0
29.0-36.3
36.3-43.5
43.5-50.8
50.8-58.0
58.0-65.3
>65.3
Pressure (psi)
Total logged time (h) = 3873.2

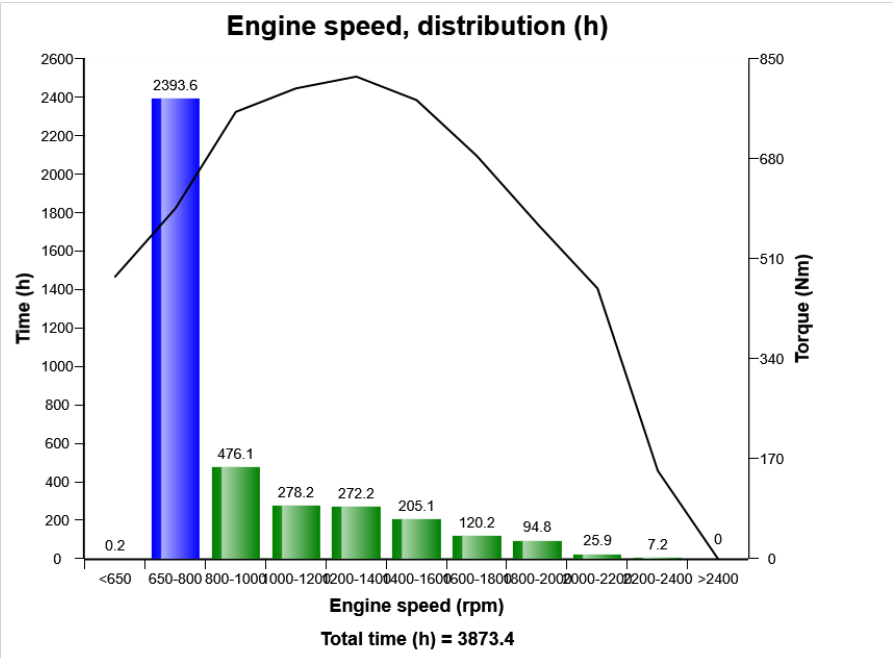

Start at different engine coolant temperatures (%)
Time (%)
65
60
55
50
45
40
35
30
25
20
15
10
5
0
56.8
43.1
0.0
0.0
0.1
<-4
-4-14
14-32
32-104
>104
Temperature (ºF)
Total number of starts: 1098


Start at different engine coolant temperatures (%)
Number (%)
65
60
55
50
45
40
35
30
25
20
15
10
5
0
56.8
43.1
0.0
0.0
0.1
<-4
-4-14
14-32
32-104
>104
Total number of starts: 1098.00


Start at different engine coolant temperatures
Number
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
624
473
0
0
1
<-4
-4-14
14-32
32-104
>104
Temperature (ºF)
Total number of starts: 1098


Average number of starts per hour
0.3
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0.26
0.28
0.3
0.32
Total number of starts: 1098


Engine speed, distribution (%)
Time (%)
Torque (Nm)
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
850
680
510
340
170
0
61.8
12.3
7.2
7
5.3
3.1
2.4
0.7
0.2
0
0
<650
650-800
800-1000
1000-1200
1200-1400
1400-1600
1600-1800
1800-2000
2000-2200
2200-2400
>2400
Engine speed (rpm)
Total time (h) = 3873.4


Engine speed, distribution (h)
Time (h)
Torque (Nm)
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
850
680
510
340
170
0
2393.6
476.1
278.2
272.2
205.1
120.2
94.8
25.9
7.2
0.2
0
<650
650-800
800-1000
1000-1200
1200-1400
1400-1600
1600-1800
1800-2000
2000-2200
2200-2400
>2400
Engine speed (rpm)
Total time (h) = 3873.4

Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

Starter overheating
Total number of occurences = 0

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

Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

Low engine oil level at start
Total number of occurences = 0

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

Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

Low Engine Oil Pressure
Total number of occurences = 0

	Op hours	Year	Month	Day	Hour	Minute	Duration (seconds)	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
*	0	2000	0	0	0	0	0	0

Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

Low Air filter pressure
Total number of occurences = 0

Op hours	Year	Month	Day	Hour	Minute	Duration (seconds)
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
0	2000	0	0	0	0	0

Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

Engine overspeed, duration
Total number of occurences = 0

Op hours	Year	Month	Day	Hour	Minute	Duration (seconds)	Extreme value
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

Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

Regeneration aborted
Total number of occurences = 2709

	Op hours	Year	Month	Day	Hour	Minute	Reason
*	1703	2018	7	3	18	53	0
*	1703	2018	7	3	18	53	0
*	1703	2018	7	3	18	53	0
*	1703	2018	7	3	18	53	0
*	1703	2018	7	3	18	53	0
*	1703	2018	7	3	18	53	0
*	1703	2018	7	3	18	53	0
*	1703	2018	7	3	18	53	0
*	1703	2018	7	3	18	53	0
*	1703	2018	7	3	18	53	0
*	1703	2018	7	3	18	53	0
*	1703	2018	7	3	18	54	0
*	1703	2018	7	3	18	54	0
*	1703	2018	7	3	18	54	0
*	1703	2018	7	3	18	54	0
*	1703	2018	7	3	18	54	0
*	1703	2018	7	3	18	53	0
*	1703	2018	7	3	18	53	0
*	1703	2018	7	3	18	53	0
*	1703	2018	7	3	18	53	0
*	1703	2018	7	3	18	53	0

Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

Regeneration ignored
Total number of occurences = 44

	Op hours	Year	Month	Day	Hour	Minute	Duration (min)
*	2285	2018	10	24	11	32	213
*	2289	2018	10	25	7	49	194
*	2292	2018	10	25	11	25	22
*	2292	2018	10	25	12	44	158
*	2295	2018	10	26	7	19	487
*	2303	2018	10	26	16	21	5
*	2303	2018	10	29	7	9	77
*	2875	2019	2	14	13	48	112
*	3429	2019	5	28	7	31	444
*	3429	2019	5	24	14	14	25
*	3429	2019	5	28	7	7	19
*	3437	2019	5	29	7	50	412
*	3443	2019	5	30	9	17	431
*	3451	2019	5	31	8	12	367
*	3457	2019	6	3	6	58	435
*	3457	2019	5	31	14	27	4
*	3464	2019	6	4	7	3	493
*	3472	2019	6	5	6	46	478
*	3480	2019	6	6	7	12	66
*	3481	2019	6	6	9	5	140

Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

Regeneration duration
Total number of occurences = 8

	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
*	613	2018	1	4	16	25	0
*	615	2018	1	5	8	17	0
*	618	2018	1	5	10	54	0
*	1702	2018	7	3	17	57	0
*	1702	2018	7	3	17	53	0
*	1703	2018	7	3	18	9	45
*	2324	2018	10	31	9	28	45
*	2877	2019	2	14	15	40	45

Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

High engine coolant temperature
Total number of occurences = 0

Op hours	Year	Month	Day	Hour	Minute	Duration (seconds)	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

Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

Water level warning in water separator
Total number of occurences = 140

	Op hours	Year	Month	Day	Hour	Minute	Duration (min)
*	820	2018	2	9	7	16	464
*	828	2018	2	12	7	4	511
*	837	2018	2	13	7	8	324
*	842	2018	2	13	12	34	6
*	842	2018	2	13	12	42	0
*	842	2018	2	13	12	44	109
*	844	2018	2	14	7	6	504
*	852	2018	2	15	7	3	510
*	861	2018	2	16	7	5	484
*	869	2018	2	17	7	14	283
*	874	2018	2	17	11	59	57
*	875	2018	2	19	6	58	492
*	883	2018	2	20	6	56	510
*	891	2018	2	21	7	10	477
*	899	2018	2	22	7	5	488
*	907	2018	2	23	7	3	475
*	915	2018	2	26	7	0	484
*	923	2018	2	27	6	51	510
*	932	2018	2	28	6	48	492
*	940	2018	3	1	7	3	418

Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

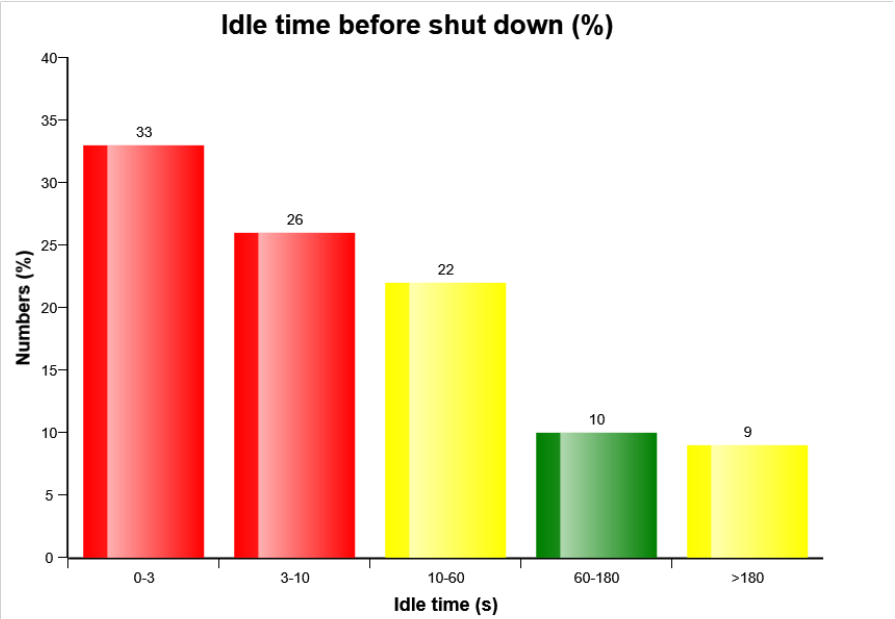
High voltage
Total number of occurences = 0

Op hours	Year	Month	Day	Hour	Minute	Duration (seconds)	Extreme value
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

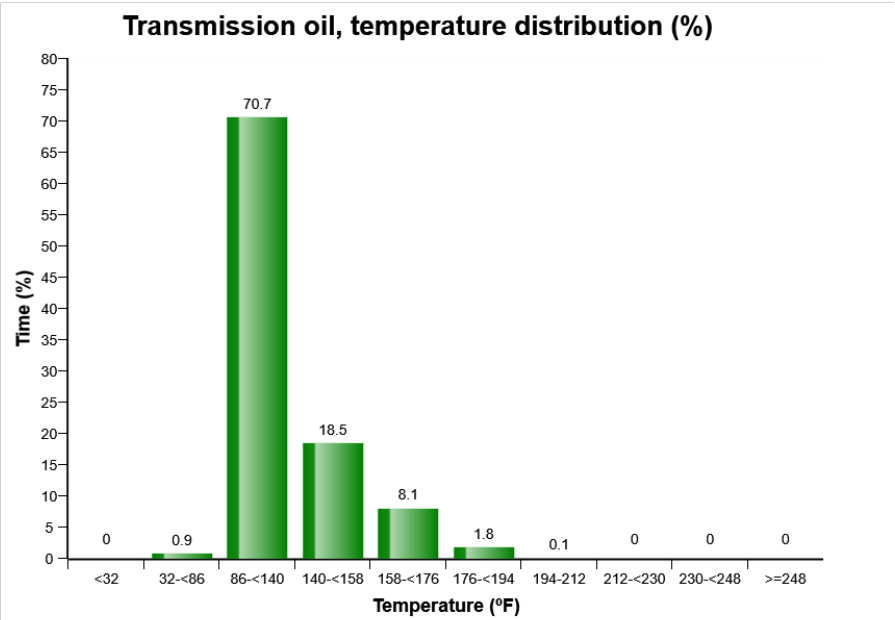
Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

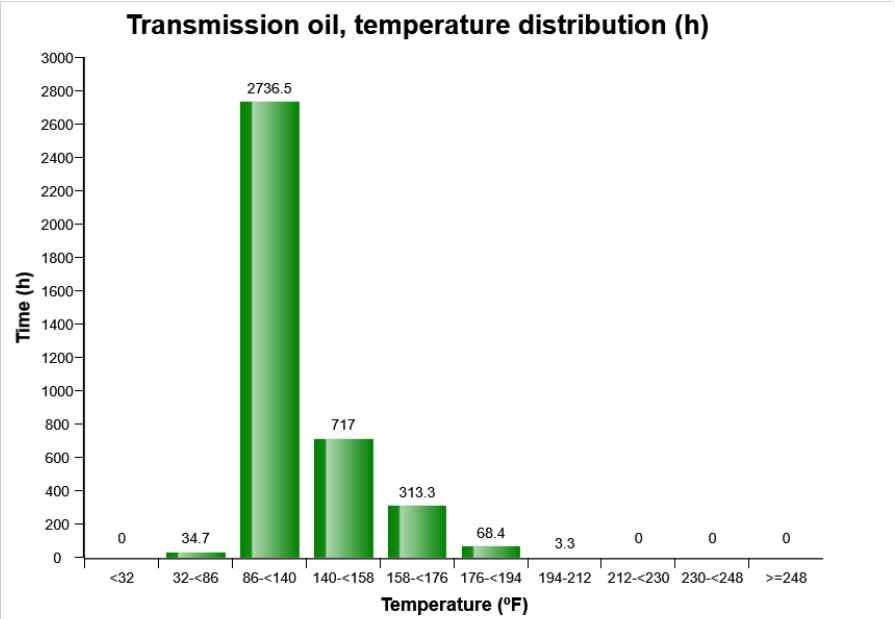
Low voltage
Total number of occurences = 0

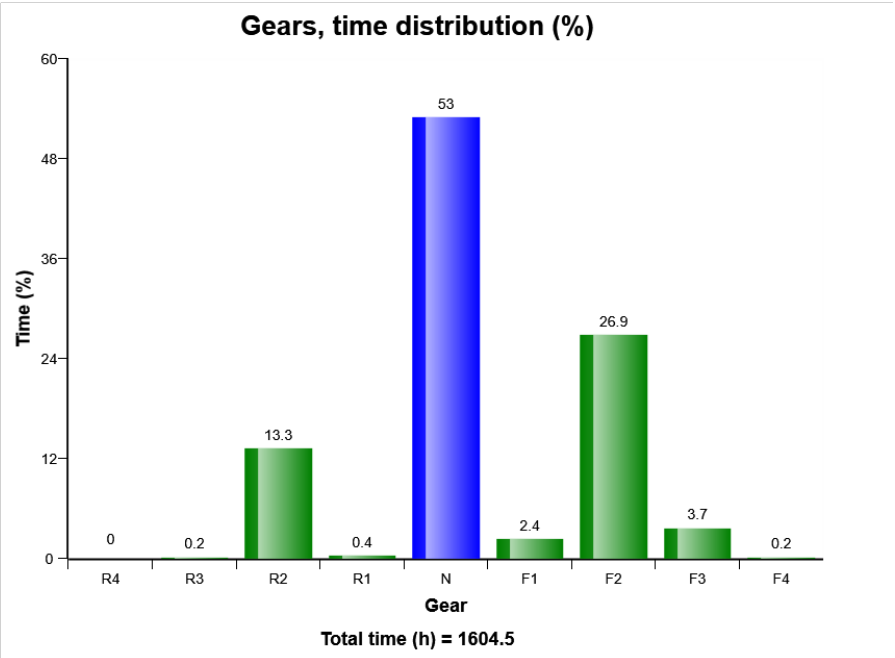
Op hours	Year	Month	Day	Hour	Minute	Duration (seconds)	Extreme value
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000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

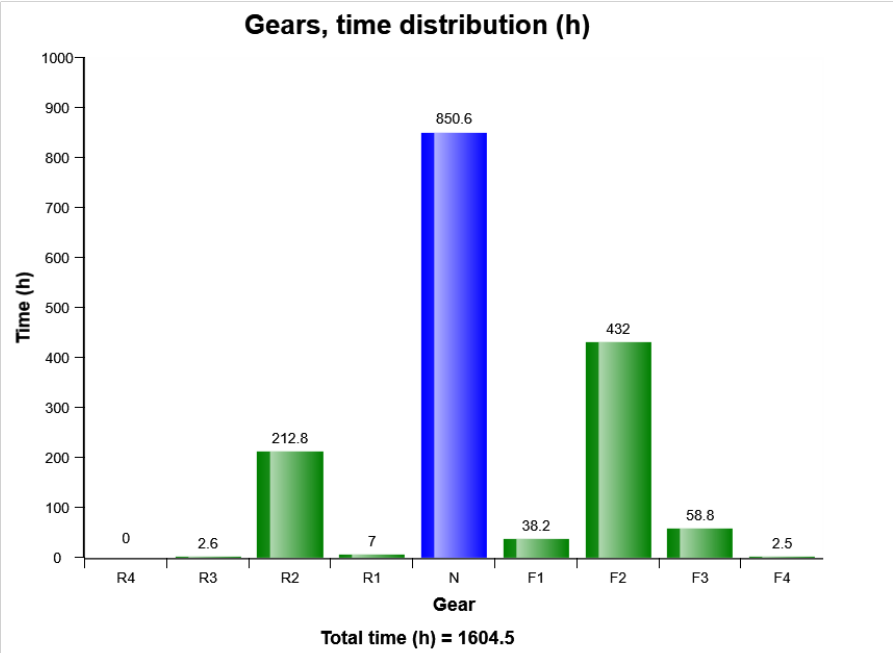


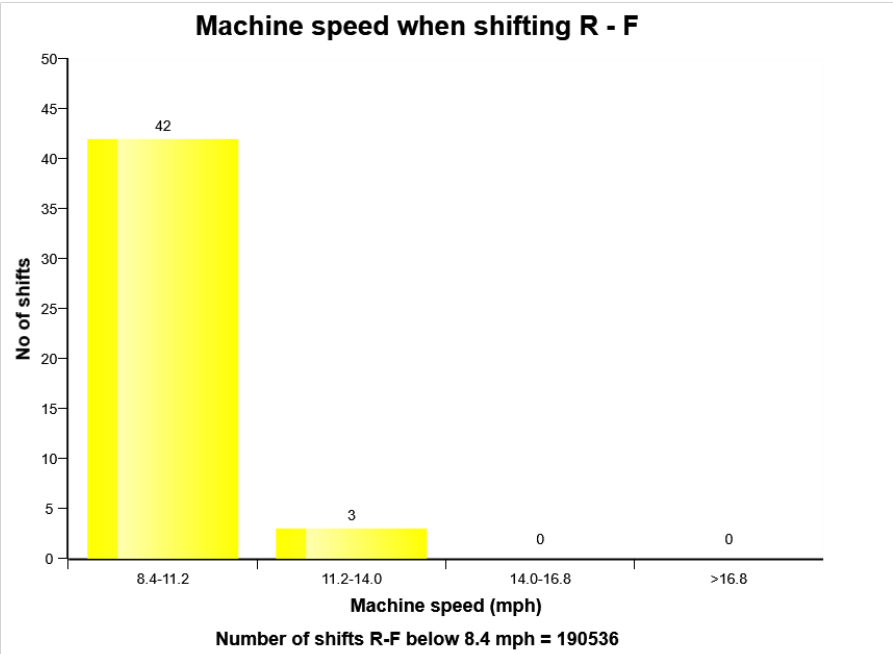
Low speed shutdown= 541
Total number of engine shutdowns= 545




Transmission oil, temperature distribution (h)
Time (h)
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
34.7
2736.5
717
313.3
68.4
3.3
0
0
0
<32
32-<86
86-<140
140-<158
158-<176
176-<194
194-212
212-<230
230-<248
>=248
Temperature (°F)


Gears, time distribution (%)
Time (%)
60
48
36
24
12
0
0
0.2
13.3
0.4
53
2.4
26.9
3.7
0.2
R4
R3
R2
R1
N
F1
F2
F3
F4
Gear
Total time (h) = 1604.5

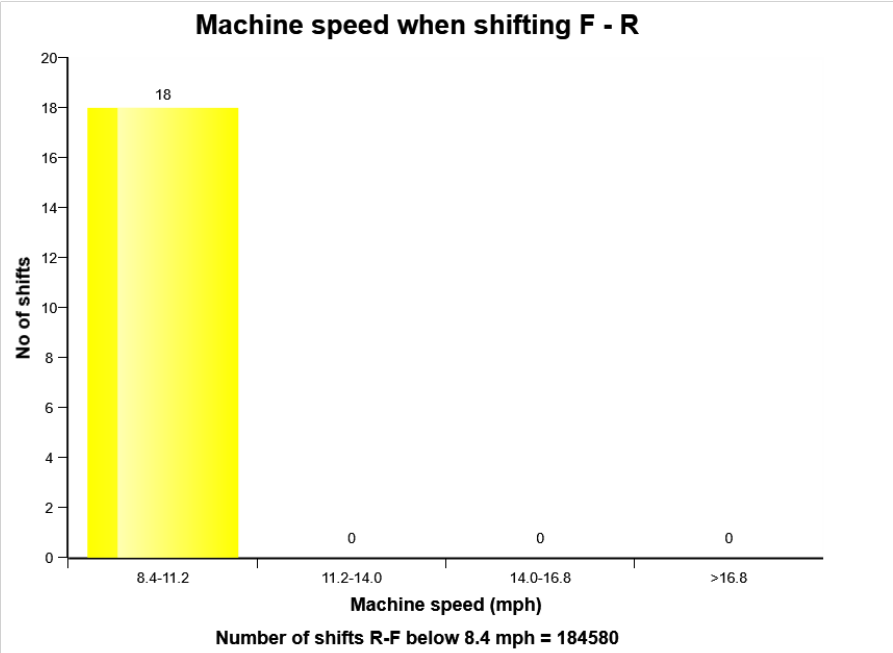

Gears, time distribution (h)
Time (h)
1000
900
800
700
600
500
400
300
200
100
0
0
2.6
212.8
7
850.6
38.2
432
58.8
2.5
R4
R3
R2
R1
N
F1
F2
F3
F4
Gear
Total time (h) = 1604.5


Machine speed when shifting R - F
No of shifts
50
45
40
35
30
25
20
15
10
5
0
42
3
0
0
8.4-11.2
11.2-14.0
14.0-16.8
>16.8
Machine speed (mph)
Number of shifts R-F below 8.4 mph = 190536

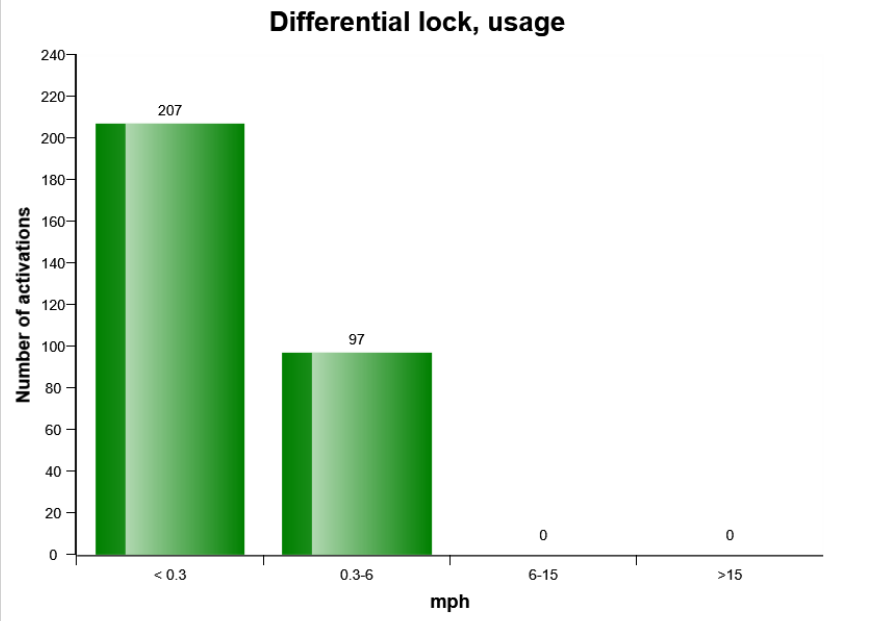
Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

Transmission oil temperature high
Total number of occurences = 0

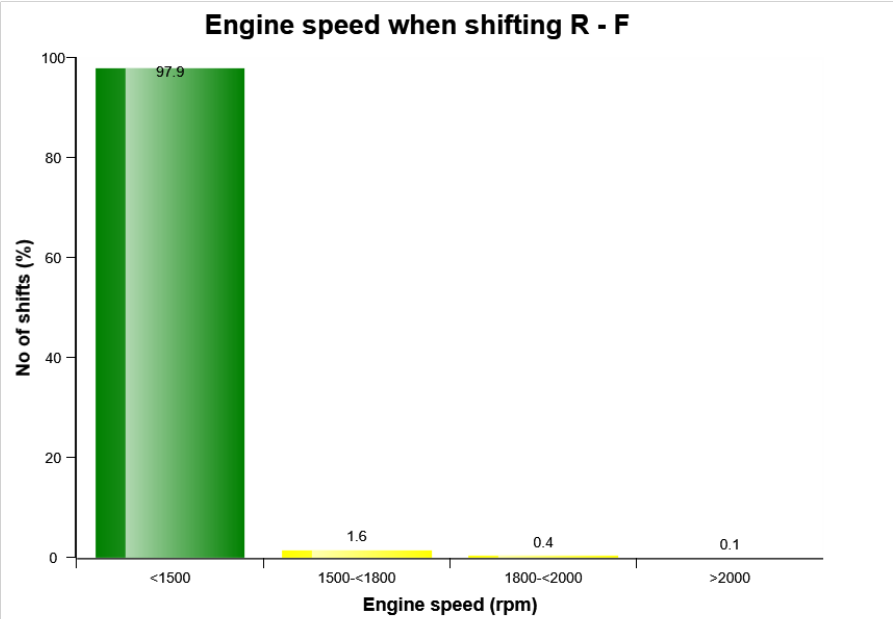
Op hours	Year	Month	Day	Hour	Minute	Duration (seconds)	Extreme (° F)
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0	0	0	32
0	2000	0	0	0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

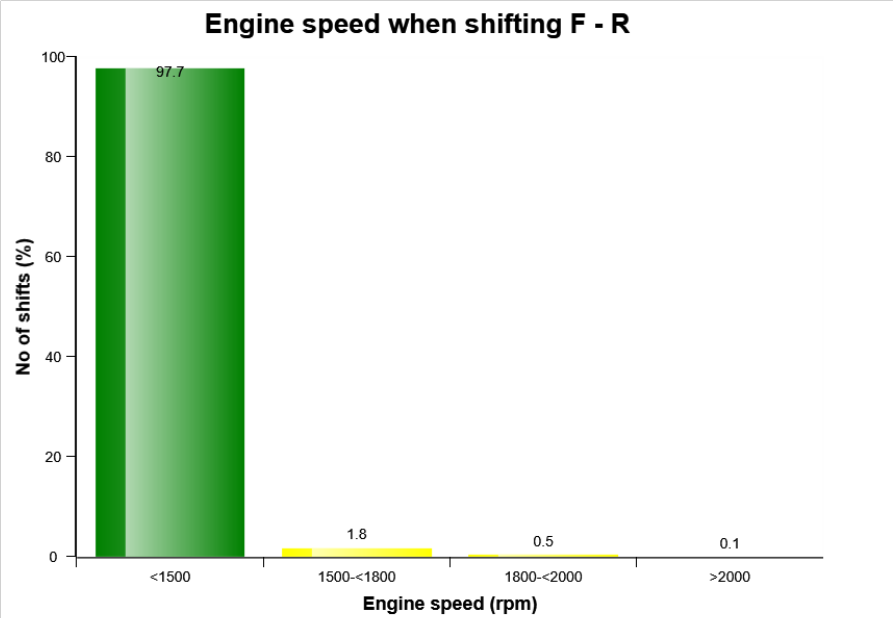


Number of shifts R-F below 8.4 mph = 184580



Time with activated diff-lock (h) = 0.4
Number of engagements = 304.0


Engine speed when shifting R - F
No of shifts (%)
100
80
60
40
20
0
97.9
1.6
0.4
0.1
<1500
1500-<1800
1800-<2000
>2000
Engine speed (rpm)

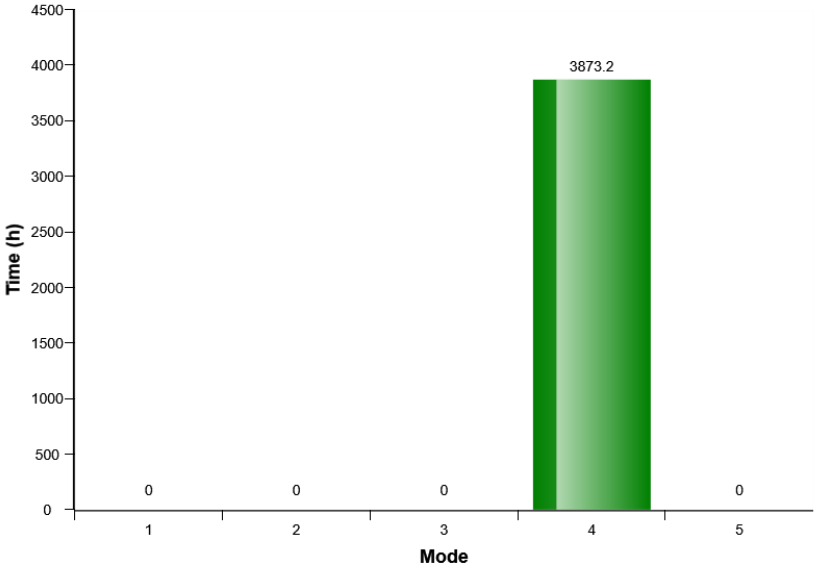

Engine speed when shifting F - R
No of shifts (%)
100
80
60
40
20
0
97.7
1.8
0.5
0.1
<1500
1500-<1800
1800-<2000
>2000
Engine speed (rpm)

Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

Usage of transmission cut off

Number of activations 0
Total logged time (h) = 3873

APS selector usage (h)

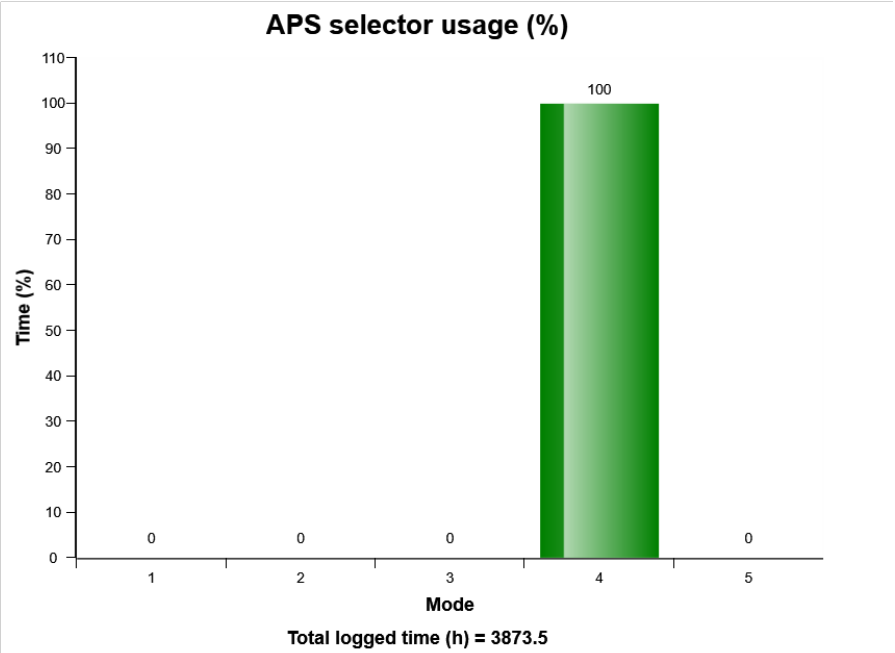


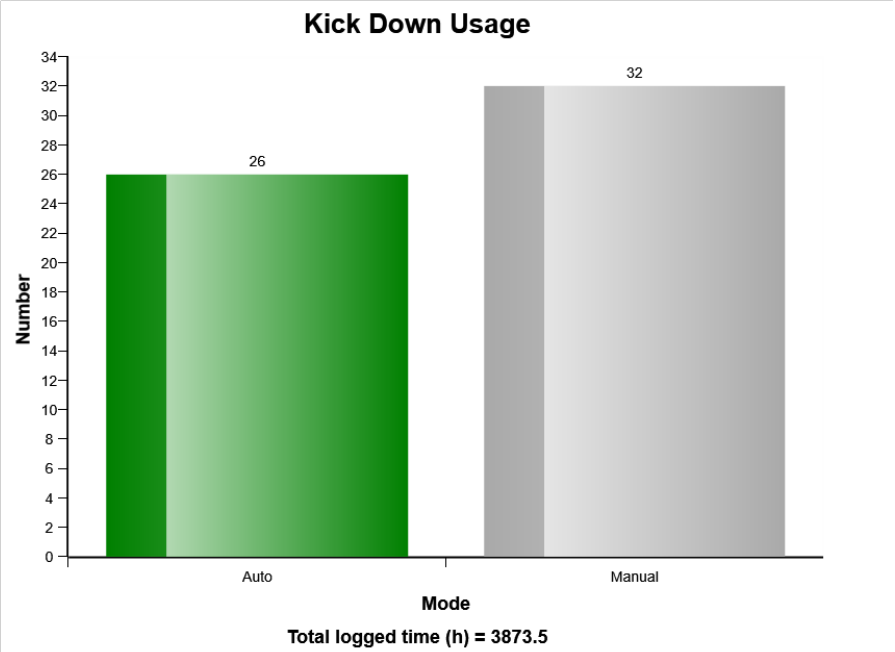
Total logged time (h) = 3873.5

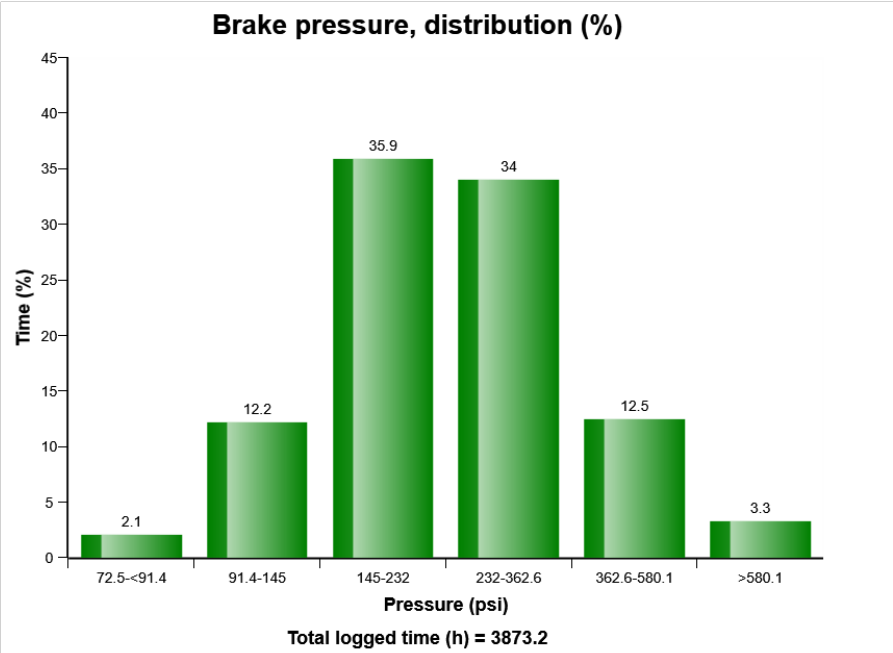
Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

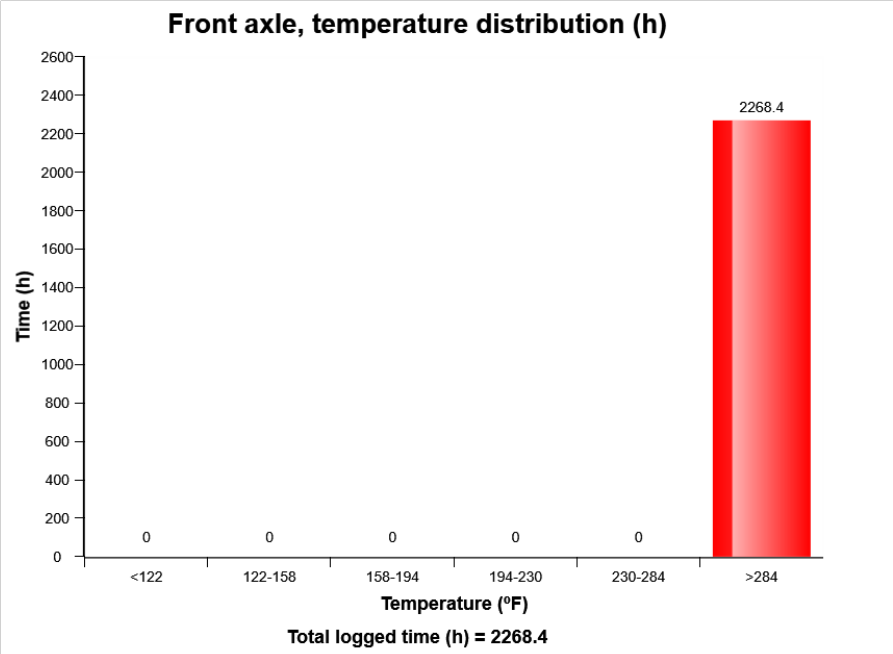
Transmission oil pressure low
Total number of occurences = 0

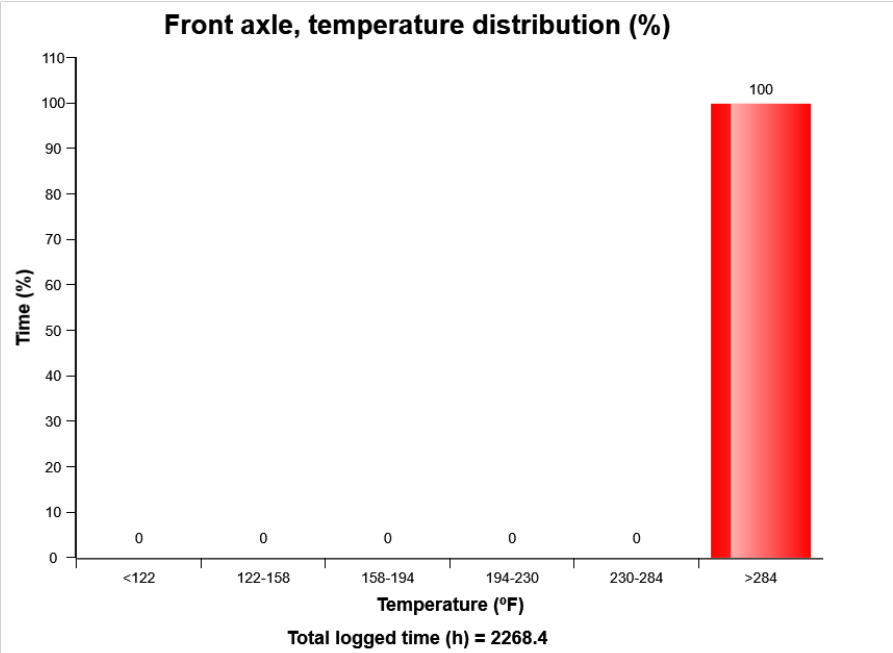
0	Year	Month	Day	Hour	Minute	Duration (seconds)	Extreme (psi)
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	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
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0
0	2000	0	0	0	0	0	0

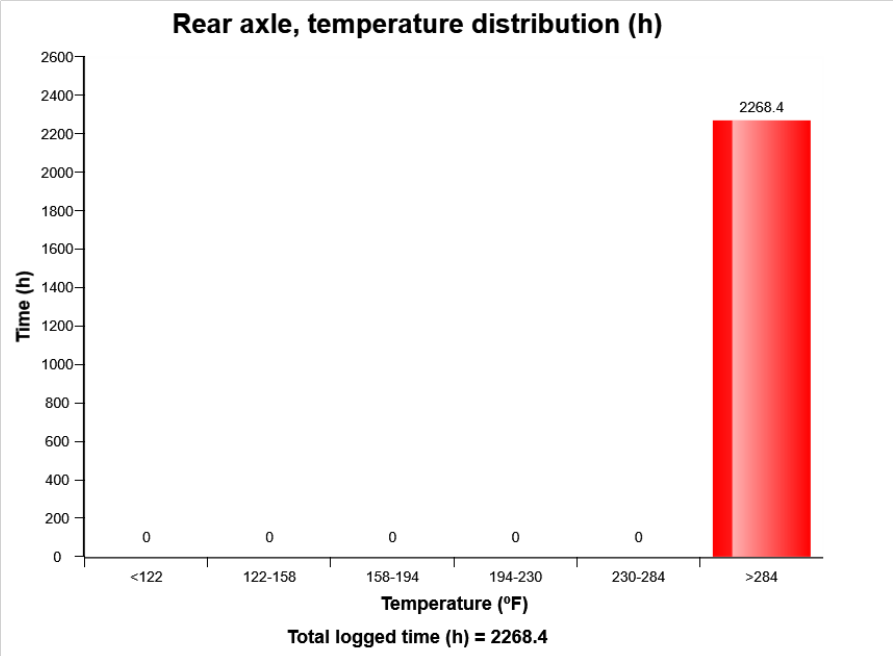

APS selector usage (%)
Time (%)
110
100
90
80
70
60
50
40
30
20
10
0
100
0
0
0
0
1
2
3
4
5
Mode
Total logged time (h) = 3873.5


Kick Down Usage
Number
34
32
30
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0
26
32
Auto
Manual
Mode
Total logged time (h) = 3873.5


Brake pressure, distribution (%)
Time (%)
45
40
35
30
25
20
15
10
5
0
2.1
12.2
35.9
34
12.5
3.3
72.5-<91.4
91.4-145
145-232
232-362.6
362.6-580.1
>580.1
Pressure (psi)
Total logged time (h) = 3873.2


Front axle, temperature distribution (h)
Time (h)
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
0
0
0
0
2268.4
<122
122-158
158-194
194-230
230-284
>284
Temperature (ºF)
Total logged time (h) = 2268.4


Front axle, temperature distribution (%)
Time (%)
110
100
90
80
70
60
50
40
30
20
10
0
100
0
0
0
0
0
<122
122-158
158-194
194-230
230-284
>284
Temperature (ºF)
Total logged time (h) = 2268.4


Rear axle, temperature distribution (h)
Time (h)
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
2268.4
0
0
0
0
0
<122
122-158
158-194
194-230
230-284
>284
Temperature (ºF)
Total logged time (h) = 2268.4

Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

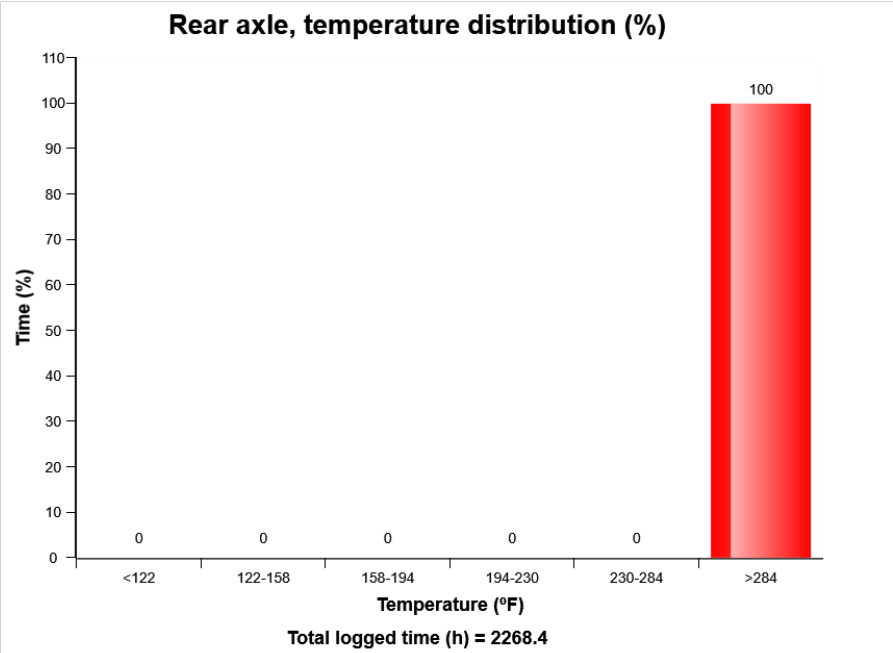
Parking brake usage
Total number of occurences = 1772

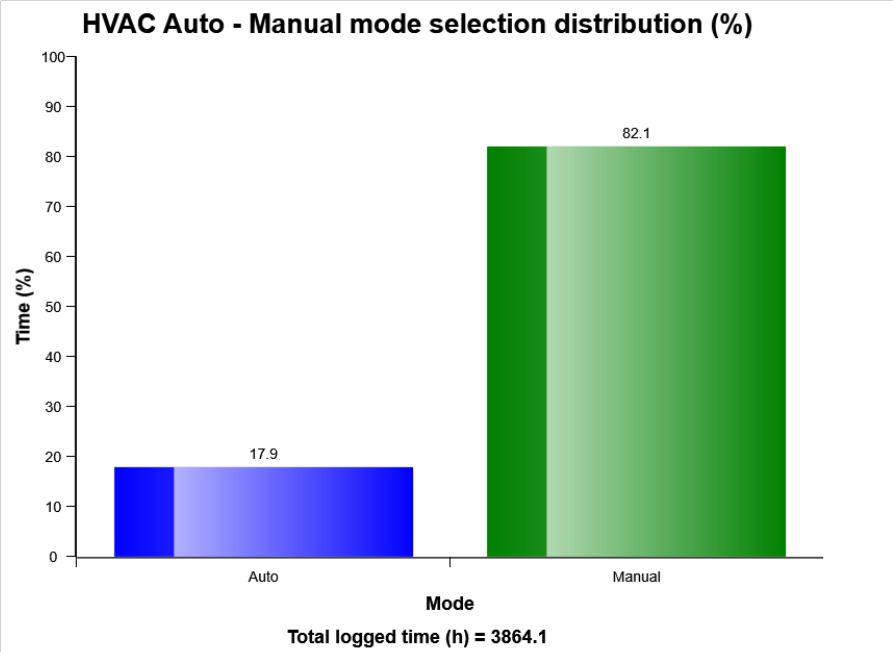
Op hours	Year	Month	Day	Hour	Minute	Duration (minutes)
0	2019	9	13	10	9	0
0	2019	9	13	10	2	1
0	2019	9	13	9	58	0
0	2019	9	10	15	23	0
0	2019	9	10	13	33	3
0	2019	9	10	13	27	5
0	2019	9	10	13	25	0
0	2019	9	23	13	35	0
0	2019	9	23	13	25	3
0	2019	9	23	13	20	2
0	2019	9	23	13	18	1
0	2019	9	23	13	14	0
0	2019	9	19	10	40	2
0	2019	9	18	10	53	0
0	2019	9	18	10	51	0
0	2019	9	13	11	9	4
0	2019	9	13	10	59	1
0	2019	9	13	10	58	0
0	2019	9	13	10	5	0
0	2019	9	13	10	7	0

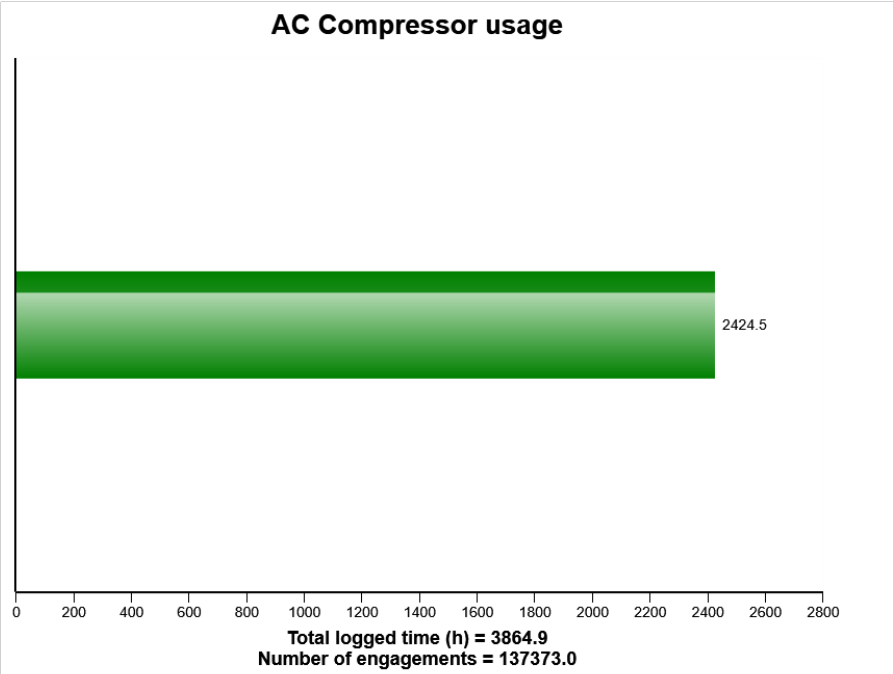
Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

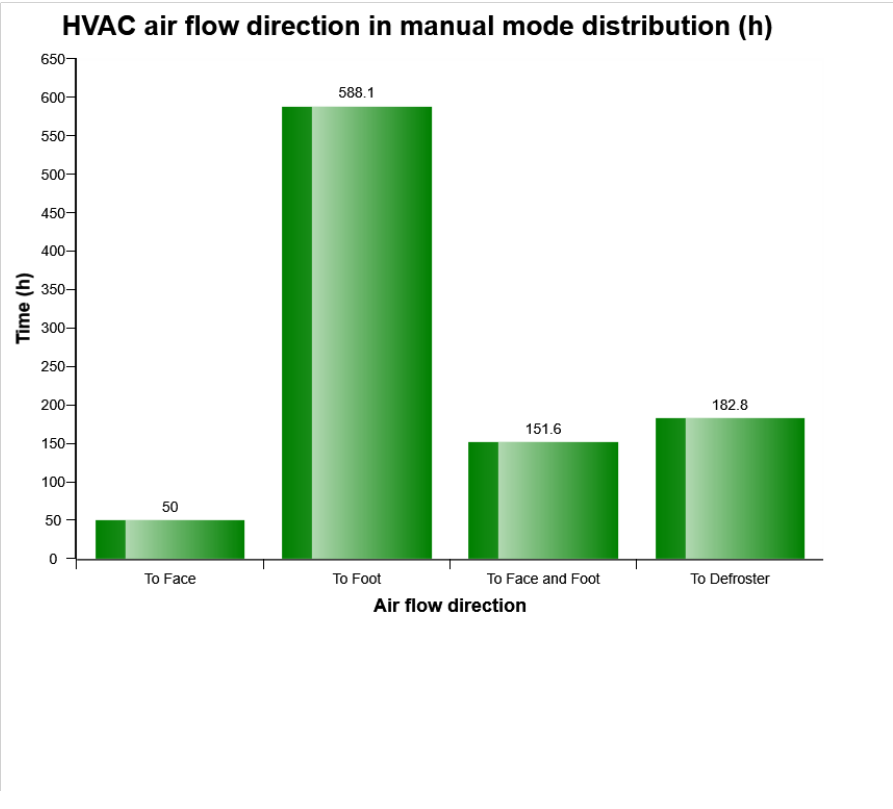
Parking brake abuse
Total number of occurences = 0

Op hours	Year	Month	Day	Hour	Minute	Duration (seconds)	Extreme (km/h)
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


Rear axle, temperature distribution (%)
Time (%)
110
100
90
80
70
60
50
40
30
20
10
0
0
0
0
0
0
100
<122
122-158
158-194
194-230
230-284
>284
Temperature (ºF)
Total logged time (h) = 2268.4


HVAC Auto - Manual mode selection distribution (%)
Time (%)
100
90
80
70
60
50
40
30
20
10
0
17.9
82.1
Auto
Manual
Mode
Total logged time (h) = 3864.1

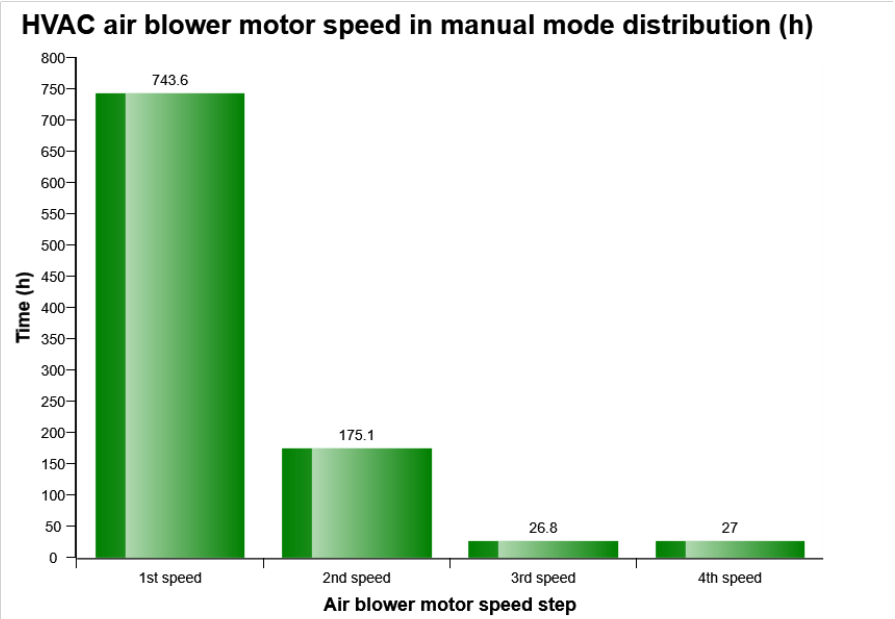

AC Compressor usage
2424.5
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
2600
2800
Total logged time (h) = 3864.9
Number of engagements = 137373.0

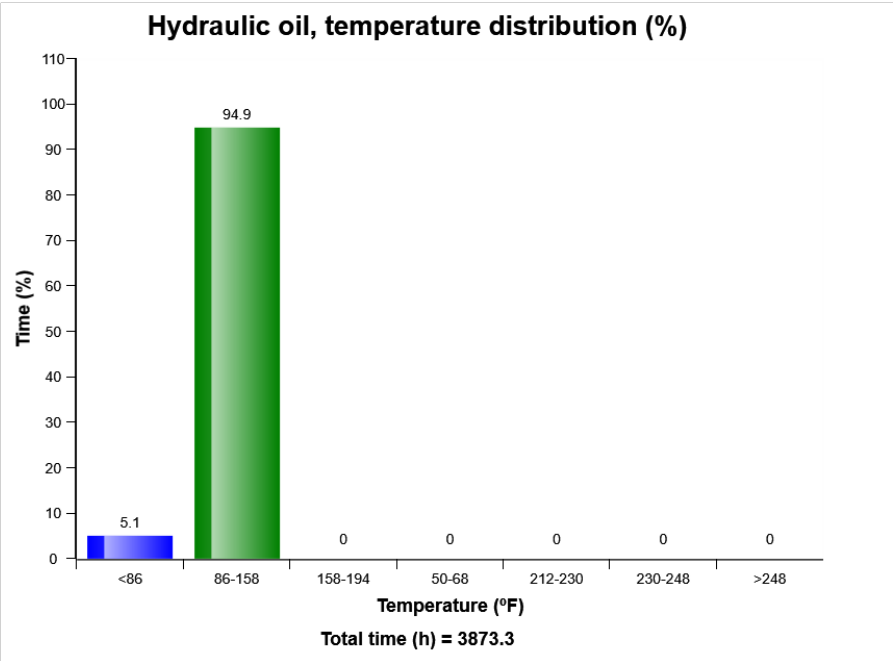

HVAC air flow direction in manual mode distribution (h)
Time (h)
650
600
550
500
450
400
350
300
250
200
150
100
50
0
588.1
182.8
151.6
50
To Face
To Foot
To Face and Foot
To Defroster
Air flow direction

Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

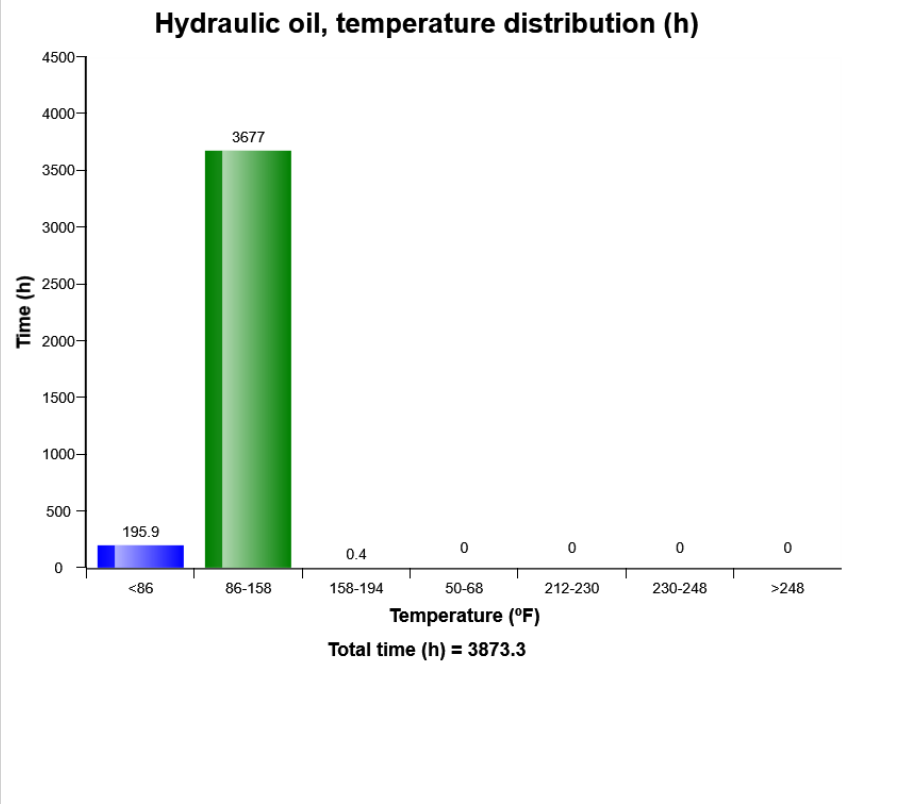
AC High Pressure
Total number of occurences = 0

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


HVAC air blower motor speed in manual mode distribution (h)
Time (h)
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
743.6
175.1
26.8
27
1st speed
2nd speed
3rd speed
4th speed
Air blower motor speed step


Hydraulic oil, temperature distribution (%)
Time (%)
110
100
90
80
70
60
50
40
30
20
10
0
5.1
94.9
0
0
0
0
0
<86
86-158
158-194
50-68
212-230
230-248
>248
Temperature (°F)
Total time (h) = 3873.3

Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019



Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

High hydraulic oil temperature
Total number of occurences = 0

Op hours	Year	Month	Day	Hour	Minute	Duration (seconds)	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

Machine model	SerialNo	Operating Hours	Reading Date
L60H	621369	3873.1	27/09/2019

Low Hydraulic Oil Level
Total number of occurences = 0

Op hours	Year	Month	Day	Hour	Minute	Duration (seconds)
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
0	2000	0	0	0	0	0