



# Operation Profile Rollup by Vehicle Report

From: Sun 03/01/09 12:00a ET  
Through: Wed 04/15/09 11:59p ET

Bozuto's Baseline Data  
with conventional mudflaps  
(6 weeks: 8,193 miles)

Organization: Cheshire, CT  
Vehicle: 0417

Speed Range	Total Miles	Total Gallons	% of Miles	Fleet Std	% of Gal	Fleet Std	MPG	Fleet Std	Cruise On %	Fleet Std	Cruise MPG	Fleet Std	Engine Work%	Fleet Std	Engine Coast%	Fleet Std	Brakes / Mile	Fleet Std	Torque Low	High	Good %
0 - 5	6.4	3.2	0.1	0.2	0.2	0.5	2.0	2.3	0.0	0.0	0.0	0.2	26.6	25.7	73.4	74.3	32.2	50.1	80.2	0.3	19.5
6 - 36	364.1	75.0	4.4	8.9	4.7	11.8	4.9	4.6	0.0	0.1	0.0	3.2	56.0	57.0	44.0	43.0	2.3	4.1	49.2	3.9	47.0
37 - 40	100.0	17.7	1.2	3.0	1.1	3.0	5.6	6.0	0.0	1.3	0.0	4.6	69.8	66.6	30.2	33.4	1.0	1.5	16.7	8.2	75.1
41 - 46	147.5	25.0	1.8	5.5	1.6	5.5	5.9	6.1	0.0	2.3	0.0	4.6	62.5	71.6	37.5	28.4	1.2	1.0	36.5	7.5	56.0
47 - 50	135.6	23.0	1.6	4.7	1.4	5.1	5.9	5.6	0.3	5.4	4.0	4.2	63.7	74.5	36.3	25.5	0.8	0.8	46.2	0.2	53.6
51 - 56	367.3	64.0	4.4	14.1	4.0	14.2	5.7	6.1	20.9	17.0	7.0	6.0	76.6	80.0	23.4	20.0	0.4	0.4	0.0	8.6	91.4
57 - 61	381.3	74.2	4.6	21.0	4.6	19.1	5.1	6.7	5.5	21.4	13.5	6.6	79.7	81.9	20.3	18.1	0.2	0.2	0.0	8.3	91.7
62 - 66	936.7	180.6	11.3	24.7	11.3	22.5	5.2	6.7	0.5	27.1	2.9	6.5	85.7	83.1	14.3	16.9	0.1	0.1	0.0	0.4	99.6
67 - 71	2,497.6	489.9	30.2	13.4	30.5	12.3	5.1	6.7	2.4	21.8	4.0	6.9	88.4	82.0	11.6	18.0	0.0	0.1	0.0	10.1	89.9
72 - 99	3,257.2	563.7	39.4	3.5	35.1	3.0	5.8	7.2	1.5	17.5	8.6	7.0	84.7	81.1	15.3	18.9	0.0	0.1	0.0	99.9	0.1
Road	8,193.7	1,516.3	99.2	99.1	94.6	97.1	5.4	6.3	2.5	14.1	6.1	6.5	83.1	78.2	16.9	21.8	0.2	0.8			
Yard	64.8	87.4	0.8	0.9	5.4	2.9	0.7	2.0													
Total	8,258.5	1,603.7	100.0	100.0	100.0	100.0	5.1	6.1													

Motion Exceptions	Report	Fleet Std
Delay Count	914	1,714
Average Delay time (MM:SS)	00:28	00:29
Average Delay Feet	40.0	37.4
Total Delay Fuel (gallons)	9.2	5.7
Speeding Time %	43.6	3.7
Speeding Miles %	52.5	5.4
Speeding Average MPH	72.1	70.2
Speeding Miles	4,299.2	440.9
Rapid Speed Changes	2	N/A
State Changes	58	81

Stop Event Profile	Report	Fleet Std
Avg Stop Time (HH:MM)	10:00	11:58
Stop Time (HH:MM)	901:21	1078:17
Stop Count	90	157
Yard Miles	64.8	44.9
Yard Fuel (gallons)	87.4	22.6
Stop Idle Time (HH:MM)	129:23	29:50
Stop Idle Fuel (gallons)	70.7	13.8
Stop Idle Time %	14.4	2.8
Idle Time Wear (mi)	10,352	2,388
Yard Move Time (HH:MM)	09:42	04:30
Yard Move Fuel (gallons)	16.7	8.8
PTO Time (HH:MM)	00:00	N/A
PTO Fuel (gallons)	0.0	N/A



# Operation Profile Rollup by Vehicle Report

From: Fri 05/01/09 12:00a ET  
 Through: Sun 05/31/09 11:59p ET

Bozzuto's Eco-flaps data  
 May 2009

Organization: Cheshire, CT  
 Vehicle: 0417

Speed Range	Total Miles	Total Gallons	% of Miles	Fleet Std	% of Gal	Fleet Std	MPG	Fleet Std	Cruise On %	Fleet Std	Cruise MPG	Fleet Std	Engine Work%	Fleet Std	Engine Coast%	Fleet Std	Brakes / Mile	Fleet Std	Torque Band %		
0 - 5	3.3	4.2	0.1	0.2	0.5	0.5	0.8	2.3	0.0	0.0	0.0	0.2	27.3	25.7	72.7	74.3	32.7	50.1	75.8	0.5	23.7
6 - 36	150.7	37.1	3.1	8.9	4.1	11.8	4.1	4.6	0.0	0.1	0.0	3.2	47.0	57.0	53.0	43.0	3.0	4.1	44.2	5.3	50.5
37 - 40	27.7	5.7	0.6	3.0	0.6	3.0	4.9	6.0	0.0	1.3	0.0	4.6	52.3	66.6	47.7	33.4	1.8	1.5	29.8	17.9	52.3
41 - 46	68.2	11.4	1.4	5.5	1.3	5.5	6.0	6.1	0.0	2.3	0.0	4.6	54.5	71.6	45.5	28.4	1.3	1.0	33.0	10.7	56.3
47 - 50	74.0	11.8	1.5	4.7	1.3	5.1	6.3	5.6	0.1	5.4	0.0	4.2	60.5	74.5	39.5	25.5	0.9	0.8	35.4	0.5	64.1
51 - 56	175.6	30.2	3.6	14.1	3.4	14.2	5.8	6.1	1.9	17.0	5.5	6.0	68.9	80.0	31.1	20.0	0.4	0.4	0.0	20.2	79.7
57 - 61	237.3	46.6	4.9	21.0	5.2	19.1	5.1	6.7	3.4	21.4	6.7	6.6	77.7	81.9	22.3	18.1	0.2	0.2	0.0	12.8	87.2
62 - 66	626.9	111.5	12.9	24.7	12.5	22.5	5.6	6.7	4.4	27.1	5.7	6.5	82.3	83.1	17.7	16.9	0.1	0.1	0.0	0.7	99.3
67 - 71	1,675.8	295.8	34.5	13.4	33.1	12.3	5.7	6.7	2.0	21.8	7.1	6.9	85.2	82.0	14.8	18.0	0.0	0.1	0.0	9.4	90.6
72 - 99	1,780.9	292.5	36.6	3.5	32.7	3.0	6.1	7.2	0.6	17.5	7.5	7.0	83.8	81.1	16.2	18.9	0.0	0.1	0.0	99.9	0.1
Road Yard	4,820.4	846.8	99.2	99.1	94.7	97.1	5.7	6.3	1.6	14.1	6.5	6.5	81.1	78.2	18.9	21.8	0.2	0.8			
Total	4,860.3	894.2	100.0	100.0	100.0	100.0	5.4	6.1													

Motion Exceptions	Report	Fleet Std
Delay Count	541	1,008
Average Delay time (MM:SS)	00:27	00:29
Average Delay Feet	39.0	37.4
Total Delay Fuel (gallons)	15.0	3.4
Speeding Time %	44.3	3.7
Speeding Miles %	51.8	5.4
Speeding Average MPH	72.0	70.2
Speeding Miles	2,494.8	259.4
Rapid Speed Changes	0	N/A
State Changes	36	48

Stop Event Profile	Report	Fleet Std
Avg Stop Time (HH:MM)	11:37	11:58
Stop Time (HH:MM)	663:00	682:55
Stop Count	57	92
Yard Miles	39.9	28.5
Yard Fuel (gallons)	47.4	14.3
Stop Idle Time (HH:MM)	68:18	18:54
Stop Idle Fuel (gallons)	33.0	8.7
Stop Idle Time %	10.3	2.8
Idle Time Wear (mi)	5,465	1,512
Yard Move Time (HH:MM)	06:06	02:51
Yard Move Fuel (gallons)	14.4	5.6
PTO Time (HH:MM)	00:00	N/A
PTO Fuel (gallons)	0.0	N/A



# Operation Profile Rollup by Vehicle Report

From: Mon 06/01/09 12:00a ET

Organization: Cheshire, CT

Through: Tue 06/30/09 11:59p ET

Bozzuto's Eco-flaps data  
June 2009

Vehicle: 0417

Speed Range	Total Miles	Total Gallons	% of Miles	Fleet Std	% of Gal	Fleet Std	MPG	Fleet Std	Cruise On %	Fleet Std	Cruise MPG	Fleet Std	Engine Work%	Fleet Std	Engine Coas%	Fleet Std	Brakes / Mile	Fleet Std	Torque Band %		
0 - 5	2.7	3.7	0.1	0.2	0.4	0.5	0.7	2.3	0.0	0.0	0.0	0.2	22.2	25.7	77.8	74.3	38.9	50.1	80.2	0.2	19.6
6 - 36	144.3	36.5	3.0	8.9	4.1	11.8	4.0	4.6	0.0	0.1	0.0	3.2	46.5	57.0	53.5	43.0	3.0	4.1	47.8	4.5	47.7
37 - 40	27.2	5.8	0.6	3.0	0.7	3.0	4.7	6.0	0.0	1.3	0.0	4.6	52.9	66.6	47.1	33.4	1.8	1.5	27.3	16.6	56.1
41 - 46	63.1	11.4	1.3	5.5	1.3	5.5	5.5	6.1	0.0	2.3	0.0	4.6	55.9	71.6	44.1	28.4	1.6	1.0	36.1	9.6	54.3
47 - 50	65.5	10.6	1.4	4.7	1.2	5.1	6.2	5.6	0.0	5.4	0.0	4.2	58.0	74.5	42.0	25.5	1.0	0.8	39.2	0.6	60.2
51 - 56	148.4	25.8	3.1	14.1	2.9	14.2	5.8	6.1	0.0	17.0	0.0	6.0	67.0	80.0	33.0	20.0	0.5	0.4	0.0	16.3	83.7
57 - 61	176.6	34.8	3.7	21.0	3.9	19.1	5.1	6.7	0.0	21.4	0.0	6.6	75.9	81.9	24.1	18.1	0.3	0.2	0.0	7.7	92.3
62 - 66	514.6	92.4	10.7	24.7	10.4	22.5	5.6	6.7	0.2	27.1	2.8	6.5	81.7	83.1	18.3	16.9	0.1	0.1	0.0	0.5	99.5
67 - 71	1,656.3	298.1	34.5	13.4	33.7	12.3	5.6	6.7	6.0	21.8	4.4	6.9	85.2	82.0	14.8	18.0	0.0	0.1	0.0	10.4	89.6
72 - 99	1,943.7	313.5	40.5	3.5	35.4	3.0	6.2	7.2	4.2	17.5	8.6	7.0	81.1	81.1	18.9	18.9	0.0	0.1	0.0	99.9	0.1
Road	4,742.4	832.6	98.7	99.1	94.1	97.1	5.7	6.3	3.4	14.1	5.5	6.5	80.1	78.2	19.9	21.8	0.2	0.8			
Yard	61.4	52.1	1.3	0.9	5.9	2.9	1.2	2.0													
Total	4,803.8	884.7	100.0	100.0	100.0	100.0	5.4	6.1													

Motion Exceptions	Report	Fleet Std
Delay Count	554	992
Average Delay time (MM:SS)	00:23	00:29
Average Delay Feet	38.0	37.4
Total Delay Fuel (gallons)	15.4	3.5
Speeding Time %	49.9	3.7
Speeding Miles %	57.7	5.4
Speeding Average MPH	72.1	70.2
Speeding Miles	2,737.1	255.2
Rapid Speed Changes	2	N/A
State Changes	34	47

Stop Event Profile	Report	Fleet Std
Avg Stop Time (HH:MM)	12:30	11:58
Stop Time (HH:MM)	625:39	599:03
Stop Count	50	91
Yard Miles	61.4	25.0
Yard Fuel (gallons)	52.1	12.5
Stop Idle Time (HH:MM)	57:24	16:34
Stop Idle Fuel (gallons)	31.7	7.6
Stop Idle Time %	9.2	2.8
Idle Time Wear (mi)	4,593	1,327
Yard Move Time (HH:MM)	08:09	02:30
Yard Move Fuel (gallons)	20.4	4.9
PTO Time (HH:MM)	00:00	N/A
PTO Fuel (gallons)	0.0	N/A



# Operation Profile Rollup by Vehicle Report

From: Wed 07/01/09 12:00a ET  
 Through: Fri 07/31/09 11:59p ET

Bozzuto's Eco-flaps data  
 July 2009

Organization: Cheshire, CT  
 Vehicle: 0417

Speed Range	Total Miles	Total Gallons	% of Miles	Fleet Std	% of Gal	Fleet Std	MPG	Fleet Std	Cruise On %	Fleet Std	Cruise MPG	Fleet Std	Engine Work%	Fleet Std	Engine Coast%	Fleet Std	Brakes / Mile	Fleet Std	Torque Band %			
0 - 5	2.5	4.2	0.1	0.2	0.5	0.5	0.6	2.3	0.0	0.0	0.0	0.2	20.0	25.7	80.0	74.3	38.0	50.1	81.3	0.4	18.4	
6 - 36	135.8	37.6	2.8	8.9	4.3	11.8	3.6	4.6	0.0	0.1	0.0	3.2	48.2	57.0	51.8	43.0	3.0	4.1	46.7	4.0	49.3	
37 - 40	27.2	5.8	0.6	3.0	0.7	3.0	4.7	6.0	0.0	1.3	0.0	4.6	57.0	66.6	43.0	33.4	1.5	1.5	27.7	15.1	57.2	
41 - 46	69.7	12.1	1.5	5.5	1.4	5.5	5.8	6.1	0.0	2.3	0.0	4.6	54.7	71.6	45.3	28.4	1.5	1.0	41.2	7.7	51.1	
47 - 50	66.7	11.7	1.4	4.7	1.3	5.1	5.7	5.6	0.0	5.4	0.0	4.2	60.0	74.5	40.0	25.5	1.2	0.8	46.2	0.1	53.7	
51 - 56	159.3	30.4	3.3	14.1	3.5	14.2	5.2	6.1	0.0	17.0	0.0	6.0	67.9	80.0	32.1	20.0	0.6	0.4	0.0	13.6	86.3	
57 - 61	193.7	39.2	4.0	21.0	4.5	19.1	4.9	6.7	0.0	21.4	0.0	6.6	77.1	81.9	22.9	18.1	0.3	0.2	0.0	6.3	93.7	
62 - 66	490.7	92.3	10.2	24.7	10.5	22.5	5.3	6.7	0.0	27.1	0.0	6.5	81.6	83.1	18.4	16.9	0.1	0.1	0.0	0.1	99.9	
67 - 71	1,480.4	261.9	30.9	13.4	29.9	12.3	5.7	6.7	2.4	21.8	3.8	6.9	83.7	82.0	16.3	18.0	0.1	0.1	0.0	0.0	10.2	89.8
72 - 99	2,117.9	337.8	44.2	3.5	38.6	3.0	6.3	7.2	4.9	17.5	7.7	7.0	82.1	81.1	17.9	18.9	0.0	0.1	0.0	0.0	99.9	0.1
Road	4,743.9	833.0	99.1	99.1	95.1	97.1	5.7	6.3	2.5	14.1	6.1	6.5	80.0	78.2	20.0	21.8	0.2	0.8				
Yard	44.8	42.6	0.9	0.9	4.9	2.9	1.1	2.0														
Total	4,788.7	875.6	100.0	100.0	100.0	100.0	5.5	6.1														

Motion Exceptions	Report	Fleet Std
Delay Count	465	992
Average Delay time (MM:SS)	00:31	00:29
Average Delay Feet	39.0	37.4
Total Delay Fuel (gallons)	13.3	2.9
Speeding Time %	50.3	3.7
Speeding Miles %	58.1	5.4
Speeding Average MPH	72.4	70.2
Speeding Miles	2,756.4	255.3
Rapid Speed Changes	1	N/A
State Changes	34	47

Stop Event Profile	Report	Fleet Std
Avg Stop Time (HH:MM)	15:07	11:58
Stop Time (HH:MM)	650:30	515:11
Stop Count	43	91
Yard Miles	44.8	21.5
Yard Fuel (gallons)	42.6	10.8
Stop Idle Time (HH:MM)	40:12	14:15
Stop Idle Fuel (gallons)	26.4	6.6
Stop Idle Time %	6.2	2.8
Idle Time Wear (mi)	3,216	1,141
Yard Move Time (HH:MM)	06:37	02:09
Yard Move Fuel (gallons)	16.2	4.2
PTO Time (HH:MM)	00:00	N/A
PTO Fuel (gallons)	0.0	N/A



# Operation Profile Rollup by Vehicle Report

From: Thu 04/16/09 12:00a ET  
Through: Fri 07/31/09 11:59p ET

Bozzuto's Summary data  
for Eco-flaps trial

(15 weeks: 15,700 miles)

Organization: Cheshire, CT  
Vehicle: 0417

Speed Range	Total Miles	Total Gallons	% of Miles	Fleet Std	% of Gal	Fleet Std	MPG	Fleet Std	Cruise On %	Fleet Std	Cruise MPG	Fleet Std	Engine Work%	Fleet Std	Engine Coast%	Fleet Std	Brakes / Mile	Fleet Std	Torque Low	High	Band % Good
0 - 5	10.1	13.7	0.1	0.2	0.5	0.5	0.7	2.3	0.0	0.0	0.0	0.2	23.8	25.7	76.2	74.3	35.1	50.1	79.6	0.3	20.0
6 - 36	471.0	120.6	3.0	8.9	4.1	11.8	3.9	4.6	0.0	0.1	0.0	3.2	47.3	57.0	52.7	43.0	3.0	4.1	46.1	4.7	49.2
37 - 40	89.7	18.8	0.6	3.0	0.6	3.0	4.8	6.0	0.0	1.3	0.0	4.6	54.1	66.6	45.9	33.4	1.7	1.5	28.1	16.7	55.2
41 - 46	220.4	38.2	1.4	5.5	1.3	5.5	5.8	6.1	0.0	2.3	0.0	4.6	55.1	71.6	44.9	28.4	1.4	1.0	37.6	9.4	53.1
47 - 50	225.4	37.2	1.4	4.7	1.3	5.1	6.1	5.6	0.0	5.4	0.0	4.2	59.8	74.5	40.2	25.5	1.0	0.8	40.2	0.4	59.4
51 - 56	521.3	92.9	3.3	14.1	3.2	14.2	5.6	6.1	0.6	17.0	5.5	6.0	67.7	80.0	32.3	20.0	0.5	0.4	0.0	16.7	83.3
57 - 61	652.0	130.2	4.1	21.0	4.5	19.1	5.0	6.7	1.2	21.4	6.7	6.6	77.0	81.9	23.0	18.1	0.3	0.2	0.0	9.3	90.7
62 - 66	1,756.5	320.2	11.1	24.7	11.0	22.5	5.5	6.7	1.6	27.1	5.4	6.5	82.0	83.1	18.0	16.9	0.1	0.1	0.0	0.5	99.5
67 - 71	5,322.5	949.7	33.6	13.4	32.5	12.3	5.6	6.7	3.2	21.8	4.6	6.9	84.8	82.0	15.2	18.0	0.0	0.1	0.0	10.0	90.0
72 - 99	6,431.7	1,042.7	40.6	3.5	35.7	3.0	6.2	7.2	3.0	17.5	8.0	7.0	82.4	81.1	17.6	18.9	0.0	0.1	0.0	99.9	0.1
Road	15,700.6	2,764.2	99.0	99.1	94.6	97.1	5.7	6.3	2.3	14.1	5.9	6.5	80.5	78.2	19.5	21.8	0.2	0.8			
Yard	157.6	156.7	1.0	0.9	5.4	2.9	1.0	2.0													
Total	15,858.2	2,920.9	100.0	100.0	100.0	100.0	5.4	6.1													

Motion Exceptions	Report	Fleet Std
Delay Count	1,726	3,283
Average Delay time (MM:SS)	00:27	00:29
Average Delay Feet	40.0	37.4
Total Delay Fuel (gallons)	47.4	10.8
Speeding Time %	48.6	3.7
Speeding Miles %	56.4	5.4
Speeding Average MPH	72.1	70.2
Speeding Miles	8,859.9	844.9
Rapid Speed Changes	4	N/A
State Changes	114	155

Stop Event Profile	Report	Fleet Std
Avg Stop Time (HH:MM)	13:47	11:58
Stop Time (HH:MM)	2275:38	1976:52
Stop Count	165	300
Yard Miles	157.6	82.4
Yard Fuel (gallons)	156.7	41.3
Stop Idle Time (HH:MM)	185:06	54:43
Stop Idle Fuel (gallons)	102.1	25.2
Stop Idle Time %	8.1	2.8
Idle Time Wear (mi)	14,808	4,378
Yard Move Time (HH:MM)	22:39	08:15
Yard Move Fuel (gallons)	54.6	16.1
PTO Time (HH:MM)	00:00	N/A
PTO Fuel (gallons)	0.0	N/A