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CATERPILLAR



## Pleasure Craft Diesel Engines

GUIDEBOOK FOR ENGINE MODEL SELECTION



# Cat Pleasure Craft Diesels... Performance Proven



- Manufactured to world-recognized Caterpillar quality standards
- Ratings... 100 HP-875, 140-940, 170 to 140-107, 160-110
- Big displacement and moderate rpm... low stroke cycle reliability
- Outstanding performance... Caterpillar fuel systems
- Smooth, vibration free... marine grade, hot metal
- True class... low to moderate weight per horsepower
- Dockside service... worldwide distributor/service network

## MODEL IDENTIFICATION

Model	Displacement (cu in.)	Stroke (in.)	RPM	HP	Weight (lb.)	Weight (kg.)	Stroke Cycle
100 HP	100	4.75	1800	100	1100	500	4/1
140 HP	140	4.75	1800	140	1500	680	4/1
170 HP	170	4.75	1800	170	1800	820	4/1
200 HP	200	4.75	1800	200	2100	950	4/1
230 HP	230	4.75	1800	230	2400	1100	4/1
260 HP	260	4.75	1800	260	2700	1250	4/1
300 HP	300	4.75	1800	300	3100	1400	4/1
340 HP	340	4.75	1800	340	3500	1600	4/1
380 HP	380	4.75	1800	380	3900	1800	4/1
420 HP	420	4.75	1800	420	4300	2000	4/1
460 HP	460	4.75	1800	460	4700	2200	4/1
500 HP	500	4.75	1800	500	5100	2400	4/1
540 HP	540	4.75	1800	540	5500	2600	4/1
580 HP	580	4.75	1800	580	5900	2800	4/1
620 HP	620	4.75	1800	620	6300	3000	4/1
660 HP	660	4.75	1800	660	6700	3200	4/1
700 HP	700	4.75	1800	700	7100	3400	4/1
740 HP	740	4.75	1800	740	7500	3600	4/1
780 HP	780	4.75	1800	780	7900	3800	4/1
820 HP	820	4.75	1800	820	8300	4000	4/1
860 HP	860	4.75	1800	860	8700	4200	4/1
900 HP	900	4.75	1800	900	9100	4400	4/1
940 HP	940	4.75	1800	940	9500	4600	4/1
107 HP	107	4.75	1800	107	1150	520	4/1
110 HP	110	4.75	1800	110	1200	550	4/1
140 HP	140	4.75	1800	140	1500	680	4/1
160 HP	160	4.75	1800	160	1700	770	4/1
170 HP	170	4.75	1800	170	1800	820	4/1
180 HP	180	4.75	1800	180	1900	870	4/1
200 HP	200	4.75	1800	200	2100	950	4/1
210 HP	210	4.75	1800	210	2200	1000	4/1
230 HP	230	4.75	1800	230	2400	1100	4/1
240 HP	240	4.75	1800	240	2500	1150	4/1
260 HP	260	4.75	1800	260	2700	1250	4/1
270 HP	270	4.75	1800	270	2800	1300	4/1
280 HP	280	4.75	1800	280	2900	1350	4/1
300 HP	300	4.75	1800	300	3100	1400	4/1
310 HP	310	4.75	1800	310	3200	1450	4/1
320 HP	320	4.75	1800	320	3300	1500	4/1
340 HP	340	4.75	1800	340	3500	1600	4/1
350 HP	350	4.75	1800	350	3600	1650	4/1
360 HP	360	4.75	1800	360	3700	1700	4/1
380 HP	380	4.75	1800	380	3900	1800	4/1
390 HP	390	4.75	1800	390	4000	1850	4/1
400 HP	400	4.75	1800	400	4100	1900	4/1
420 HP	420	4.75	1800	420	4300	2000	4/1
430 HP	430	4.75	1800	430	4400	2050	4/1
440 HP	440	4.75	1800	440	4500	2100	4/1
460 HP	460	4.75	1800	460	4700	2200	4/1
470 HP	470	4.75	1800	470	4800	2250	4/1
480 HP	480	4.75	1800	480	4900	2300	4/1
500 HP	500	4.75	1800	500	5100	2400	4/1
510 HP	510	4.75	1800	510	5200	2450	4/1
520 HP	520	4.75	1800	520	5300	2500	4/1
540 HP	540	4.75	1800	540	5500	2600	4/1
550 HP	550	4.75	1800	550	5600	2650	4/1
560 HP	560	4.75	1800	560	5700	2700	4/1
580 HP	580	4.75	1800	580	5900	2800	4/1
590 HP	590	4.75	1800	590	6000	2850	4/1
600 HP	600	4.75	1800	600	6100	2900	4/1
620 HP	620	4.75	1800	620	6300	3000	4/1
630 HP	630	4.75	1800	630	6400	3050	4/1
640 HP	640	4.75	1800	640	6500	3100	4/1
660 HP	660	4.75	1800	660	6700	3200	4/1
670 HP	670	4.75	1800	670	6800	3250	4/1
680 HP	680	4.75	1800	680	6900	3300	4/1
700 HP	700	4.75	1800	700	7100	3400	4/1
710 HP	710	4.75	1800	710	7200	3450	4/1
720 HP	720	4.75	1800	720	7300	3500	4/1
740 HP	740	4.75	1800	740	7500	3600	4/1
750 HP	750	4.75	1800	750	7600	3650	4/1
760 HP	760	4.75	1800	760	7700	3700	4/1
780 HP	780	4.75	1800	780	7900	3800	4/1
790 HP	790	4.75	1800	790	8000	3850	4/1
800 HP	800	4.75	1800	800	8100	3900	4/1
820 HP	820	4.75	1800	820	8300	4000	4/1
830 HP	830	4.75	1800	830	8400	4050	4/1
840 HP	840	4.75	1800	840	8500	4100	4/1
860 HP	860	4.75	1800	860	8700	4200	4/1
870 HP	870	4.75	1800	870	8800	4250	4/1
880 HP	880	4.75	1800	880	8900	4300	4/1
900 HP	900	4.75	1800	900	9100	4400	4/1
910 HP	910	4.75	1800	910	9200	4450	4/1
920 HP	920	4.75	1800	920	9300	4500	4/1
940 HP	940	4.75	1800	940	9500	4600	4/1
950 HP	950	4.75	1800	950	9600	4650	4/1
960 HP	960	4.75	1800	960	9700	4700	4/1
980 HP	980	4.75	1800	980	9900	4800	4/1
990 HP	990	4.75	1800	990	10000	4850	4/1

## Extended Cruising Range

With a 20-gallon fuel tank, the 2000 HP outboard can cruise for 10 hours at 1000 RPM. The 1500 HP outboard can cruise for 10 hours at 1000 RPM. The 1000 HP outboard can cruise for 10 hours at 1000 RPM. The 750 HP outboard can cruise for 10 hours at 1000 RPM. The 500 HP outboard can cruise for 10 hours at 1000 RPM.

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Model	HP	Weight	Length	Width	Height	Max RPM	Max Fuel	Max Time	Max Speed
2000 HP	2000	110 lbs	24.5 in	18.5 in	22.5 in	3000	20 gal	10 hrs	30 mph
1500 HP	1500	85 lbs	20.5 in	15.5 in	18.5 in	3000	15 gal	10 hrs	25 mph
1000 HP	1000	65 lbs	16.5 in	12.5 in	14.5 in	3000	10 gal	10 hrs	20 mph
750 HP	750	50 lbs	12.5 in	9.5 in	10.5 in	3000	7.5 gal	10 hrs	15 mph
500 HP	500	35 lbs	8.5 in	6.5 in	7.5 in	3000	5 gal	10 hrs	10 mph

## Installation Convenience... Compact Size... Low Profile Installation



Maximum Size - 24.5 in. (61.3 cm)

Maximum Size - 24.5 in. (61.3 cm)



- 2000 HP
- 1500 HP
- 1000 HP
- 750 HP
- 500 HP
- 2000 HP
- 1500 HP
- 1000 HP
- 750 HP
- 500 HP
- 2000 HP
- 1500 HP
- 1000 HP
- 750 HP
- 500 HP

Mount the outboard motor on the boat with the transom. The outboard motor will be installed on the transom. The outboard motor will be installed on the transom. The outboard motor will be installed on the transom. The outboard motor will be installed on the transom.

### Accessibility

The outboard motor is designed for easy access. The outboard motor is designed for easy access. The outboard motor is designed for easy access. The outboard motor is designed for easy access. The outboard motor is designed for easy access.

## Metallurgy and Design Benefits

### CYLINDER HEADS

- An cast aluminum and alloyed with lead... for grinding resistance.
- Cast in integral gray cast iron combustion... and exhaust valves.
- Also cast integral valve seats, integral combustion chamber... and exhaust valves.
- Exhaust valve seat integral with cast iron valve seat supports... and the structure of the... combustion chamber.
- An integral valve seat... and exhaust valves in the same casting.

### VALVES AND SPRINGS

- Cast iron exhaust valves, gray cast iron and exhaust valves for complete resistance.
- Valve valve seat or combustion chamber... and exhaust valves in the same casting.
- Cast iron spring and exhaust valve... and exhaust valve in the same casting.

### ENGINE BLOCK

- Cast in aluminum alloy... and integral... and exhaust valves.
- Cast in aluminum alloy... and integral... and exhaust valves.
- Cast in aluminum alloy... and integral... and exhaust valves.
- Cast in aluminum alloy... and integral... and exhaust valves.

### CONNECTING RODS

- Cast in cast iron... and integral... and exhaust valves.
- Cast in cast iron... and integral... and exhaust valves.
- Cast in cast iron... and integral... and exhaust valves.

### WINDUP

- Cast in cast iron... and integral... and exhaust valves.
- Cast in cast iron... and integral... and exhaust valves.

### BEARINGS

- Cast in cast iron... and integral... and exhaust valves.
- Cast in cast iron... and integral... and exhaust valves.
- Cast in cast iron... and integral... and exhaust valves.

### CRANKSHAF

- Cast in cast iron... and integral... and exhaust valves.
- Cast in cast iron... and integral... and exhaust valves.
- Cast in cast iron... and integral... and exhaust valves.

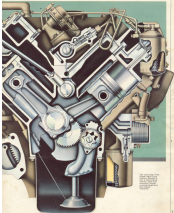
## Get 1990 Fuel Economy

- **Save 10% on fuel economy**... and integral... and exhaust valves.
- **Save 10% on fuel economy**... and integral... and exhaust valves.
- **Save 10% on fuel economy**... and integral... and exhaust valves.
- **Save 10% on fuel economy**... and integral... and exhaust valves.

The most important... and integral... and exhaust valves.

**1990 EPA Fuel Economy**

Model	City (mpg)	Highway (mpg)	Combined (mpg)
4-cyl. 2.0L	24	33	27
4-cyl. 2.3L	23	32	26
4-cyl. 2.6L	22	31	25
4-cyl. 3.0L	21	30	24
4-cyl. 3.3L	20	29	23
4-cyl. 3.6L	19	28	22
4-cyl. 3.9L	18	27	21
4-cyl. 4.2L	17	26	20
4-cyl. 4.5L	16	25	19
4-cyl. 4.8L	15	24	18
4-cyl. 5.0L	14	23	17
4-cyl. 5.2L	13	22	16
4-cyl. 5.4L	12	21	15
4-cyl. 5.6L	11	20	14
4-cyl. 5.8L	10	19	13
4-cyl. 6.0L	9	18	12
4-cyl. 6.2L	8	17	11
4-cyl. 6.4L	7	16	10
4-cyl. 6.6L	6	15	9
4-cyl. 6.8L	5	14	8
4-cyl. 7.0L	4	13	7
4-cyl. 7.2L	3	12	6
4-cyl. 7.4L	2	11	5
4-cyl. 7.6L	1	10	4
4-cyl. 7.8L	0	9	3
4-cyl. 8.0L	0	8	2



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# Performance and Dimensions

## D340 1-8

Model	D340
Max. Power	27.0 kW (36.5 hp)
Max. Torque	10.0 kNm (73.5 lb-ft)
Max. Fuel Consumption	20.0 L/h (5.3 gal/h)
Max. Operating Speed	2200 rpm
Max. Fuel Tank Capacity	60.0 L (15.9 gal)
Max. Fuel Tank Range	2.0 h

Max. PTO Power	18.0 kW (24.5 hp)
Max. PTO Torque	6.5 kNm (47.8 lb-ft)
Max. PTO Fuel Consumption	13.0 L/h (3.4 gal/h)
Max. PTO Operating Speed	2200 rpm
Max. PTO Fuel Tank Capacity	18.0 L (4.7 gal)
Max. PTO Fuel Tank Range	0.6 h

Operating at 2200 rpm  
 \* Limited availability in 17 European States  
 (see website)



## D350 1-8

Model	D350
Max. Power	30.0 kW (40.8 hp)
Max. Torque	11.0 kNm (80.7 lb-ft)
Max. Fuel Consumption	22.0 L/h (5.8 gal/h)
Max. Operating Speed	2200 rpm
Max. Fuel Tank Capacity	60.0 L (15.9 gal)
Max. Fuel Tank Range	2.0 h

Max. PTO Power	20.0 kW (27.1 hp)
Max. PTO Torque	7.0 kNm (51.5 lb-ft)
Max. PTO Fuel Consumption	14.0 L/h (3.7 gal/h)
Max. PTO Operating Speed	2200 rpm
Max. PTO Fuel Tank Capacity	18.0 L (4.7 gal)
Max. PTO Fuel Tank Range	0.6 h

Operating at 2200 rpm  
 \* Limited availability in 17 European States  
 (see website)



## D354 1-8

Model	D354
Max. Power	34.0 kW (45.9 hp)
Max. Torque	12.0 kNm (88.1 lb-ft)
Max. Fuel Consumption	24.0 L/h (6.3 gal/h)
Max. Operating Speed	2200 rpm
Max. Fuel Tank Capacity	60.0 L (15.9 gal)
Max. Fuel Tank Range	2.0 h

Max. PTO Power	23.0 kW (31.1 hp)
Max. PTO Torque	8.0 kNm (59.0 lb-ft)
Max. PTO Fuel Consumption	15.0 L/h (4.0 gal/h)
Max. PTO Operating Speed	2200 rpm
Max. PTO Fuel Tank Capacity	18.0 L (4.7 gal)
Max. PTO Fuel Tank Range	0.6 h

Operating at 2200 rpm  
 \* Limited availability in 17 European States  
 (see website)



## D360 1-8

Model	D360
Max. Power	36.0 kW (48.5 hp)
Max. Torque	13.0 kNm (95.5 lb-ft)
Max. Fuel Consumption	26.0 L/h (6.9 gal/h)
Max. Operating Speed	2200 rpm
Max. Fuel Tank Capacity	60.0 L (15.9 gal)
Max. Fuel Tank Range	2.0 h

Max. PTO Power	25.0 kW (33.7 hp)
Max. PTO Torque	9.0 kNm (66.3 lb-ft)
Max. PTO Fuel Consumption	16.0 L/h (4.2 gal/h)
Max. PTO Operating Speed	2200 rpm
Max. PTO Fuel Tank Capacity	18.0 L (4.7 gal)
Max. PTO Fuel Tank Range	0.6 h

Operating at 2200 rpm  
 \* Limited availability in 17 European States  
 (see website)

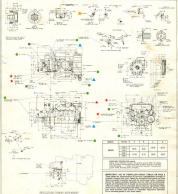




Fig. 254 mm

8140 IT  
 240 HP 240 RPM H&S 2.5/1

3160 Dimensiones



ITEM	DIMENSIONS					
	IN	MM	IN	MM	IN	MM
1	1.5	38	1.5	38	1.5	38
2	1.5	38	1.5	38	1.5	38
3	1.5	38	1.5	38	1.5	38
4	1.5	38	1.5	38	1.5	38
5	1.5	38	1.5	38	1.5	38
6	1.5	38	1.5	38	1.5	38
7	1.5	38	1.5	38	1.5	38
8	1.5	38	1.5	38	1.5	38
9	1.5	38	1.5	38	1.5	38
10	1.5	38	1.5	38	1.5	38
11	1.5	38	1.5	38	1.5	38
12	1.5	38	1.5	38	1.5	38
13	1.5	38	1.5	38	1.5	38
14	1.5	38	1.5	38	1.5	38
15	1.5	38	1.5	38	1.5	38
16	1.5	38	1.5	38	1.5	38
17	1.5	38	1.5	38	1.5	38
18	1.5	38	1.5	38	1.5	38
19	1.5	38	1.5	38	1.5	38
20	1.5	38	1.5	38	1.5	38
21	1.5	38	1.5	38	1.5	38
22	1.5	38	1.5	38	1.5	38
23	1.5	38	1.5	38	1.5	38
24	1.5	38	1.5	38	1.5	38
25	1.5	38	1.5	38	1.5	38
26	1.5	38	1.5	38	1.5	38
27	1.5	38	1.5	38	1.5	38
28	1.5	38	1.5	38	1.5	38
29	1.5	38	1.5	38	1.5	38
30	1.5	38	1.5	38	1.5	38
31	1.5	38	1.5	38	1.5	38
32	1.5	38	1.5	38	1.5	38
33	1.5	38	1.5	38	1.5	38
34	1.5	38	1.5	38	1.5	38
35	1.5	38	1.5	38	1.5	38
36	1.5	38	1.5	38	1.5	38
37	1.5	38	1.5	38	1.5	38
38	1.5	38	1.5	38	1.5	38
39	1.5	38	1.5	38	1.5	38
40	1.5	38	1.5	38	1.5	38
41	1.5	38	1.5	38	1.5	38
42	1.5	38	1.5	38	1.5	38
43	1.5	38	1.5	38	1.5	38
44	1.5	38	1.5	38	1.5	38
45	1.5	38	1.5	38	1.5	38
46	1.5	38	1.5	38	1.5	38
47	1.5	38	1.5	38	1.5	38
48	1.5	38	1.5	38	1.5	38
49	1.5	38	1.5	38	1.5	38
50	1.5	38	1.5	38	1.5	38
51	1.5	38	1.5	38	1.5	38
52	1.5	38	1.5	38	1.5	38
53	1.5	38	1.5	38	1.5	38
54	1.5	38	1.5	38	1.5	38
55	1.5	38	1.5	38	1.5	38
56	1.5	38	1.5	38	1.5	38
57	1.5	38	1.5	38	1.5	38
58	1.5	38	1.5	38	1.5	38
59	1.5	38	1.5	38	1.5	38
60	1.5	38	1.5	38	1.5	38
61	1.5	38	1.5	38	1.5	38
62	1.5	38	1.5	38	1.5	38
63	1.5	38	1.5	38	1.5	38
64	1.5	38	1.5	38	1.5	38
65	1.5	38	1.5	38	1.5	38
66	1.5	38	1.5	38	1.5	38
67	1.5	38	1.5	38	1.5	38
68	1.5	38	1.5	38	1.5	38
69	1.5	38	1.5	38	1.5	38
70	1.5	38	1.5	38	1.5	38
71	1.5	38	1.5	38	1.5	38
72	1.5	38	1.5	38	1.5	38
73	1.5	38	1.5	38	1.5	38
74	1.5	38	1.5	38	1.5	38
75	1.5	38	1.5	38	1.5	38
76	1.5	38	1.5	38	1.5	38
77	1.5	38	1.5	38	1.5	38
78	1.5	38	1.5	38	1.5	38
79	1.5	38	1.5	38	1.5	38
80	1.5	38	1.5	38	1.5	38
81	1.5	38	1.5	38	1.5	38
82	1.5	38	1.5	38	1.5	38
83	1.5	38	1.5	38	1.5	38
84	1.5	38	1.5	38	1.5	38
85	1.5	38	1.5	38	1.5	38
86	1.5	38	1.5	38	1.5	38
87	1.5	38	1.5	38	1.5	38
88	1.5	38	1.5	38	1.5	38
89	1.5	38	1.5	38	1.5	38
90	1.5	38	1.5	38	1.5	38
91	1.5	38	1.5	38	1.5	38
92	1.5	38	1.5	38	1.5	38
93	1.5	38	1.5	38	1.5	38
94	1.5	38	1.5	38	1.5	38
95	1.5	38	1.5	38	1.5	38
96	1.5	38	1.5	38	1.5	38
97	1.5	38	1.5	38	1.5	38
98	1.5	38	1.5	38	1.5	38
99	1.5	38	1.5	38	1.5	38
100	1.5	38	1.5	38	1.5	38

NOTES: 1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.  
 2. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.  
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7	8	9	10	11	12



# Facts for Naval Architects and Engineers

Model	3000	3400	3406	3408
Weight (lbs.)	14	18	24	34
Operating cost	\$4.1	\$3.1	\$2.7	\$2.1
Operating cost per hour	\$383.00	\$267.00	\$255.00	\$202.00
Operating cost per mile	3.00	2.50	2.20	1.50
Operating cost per ton	1.90	1.50	1.30	0.90
Operating cost per ton-mile	60.00	45.00	39.00	27.00
Operating cost per ton-mile per hour	2.00	1.50	1.30	0.90
Operating cost per ton-mile per hour (with 10% profit)	2.20	1.65	1.43	1.00
Operating cost per ton-mile per hour (with 20% profit)	2.40	1.80	1.56	1.08
Operating cost per ton-mile per hour (with 30% profit)	2.60	1.95	1.69	1.17
Operating cost per ton-mile per hour (with 40% profit)	2.80	2.10	1.82	1.26
Operating cost per ton-mile per hour (with 50% profit)	3.00	2.25	1.95	1.35
Operating cost per ton-mile per hour (with 60% profit)	3.20	2.40	2.08	1.44
Operating cost per ton-mile per hour (with 70% profit)	3.40	2.55	2.21	1.53
Operating cost per ton-mile per hour (with 80% profit)	3.60	2.70	2.34	1.62
Operating cost per ton-mile per hour (with 90% profit)	3.80	2.85	2.47	1.71
Operating cost per ton-mile per hour (with 100% profit)	4.00	3.00	2.60	1.80
Operating cost per ton-mile per hour (with 110% profit)	4.20	3.15	2.73	1.89
Operating cost per ton-mile per hour (with 120% profit)	4.40	3.30	2.86	1.98
Operating cost per ton-mile per hour (with 130% profit)	4.60	3.45	2.99	2.07
Operating cost per ton-mile per hour (with 140% profit)	4.80	3.60	3.12	2.16
Operating cost per ton-mile per hour (with 150% profit)	5.00	3.75	3.25	2.25
Operating cost per ton-mile per hour (with 160% profit)	5.20	3.90	3.38	2.34
Operating cost per ton-mile per hour (with 170% profit)	5.40	4.05	3.51	2.43
Operating cost per ton-mile per hour (with 180% profit)	5.60	4.20	3.64	2.52
Operating cost per ton-mile per hour (with 190% profit)	5.80	4.35	3.77	2.61
Operating cost per ton-mile per hour (with 200% profit)	6.00	4.50	3.90	2.70
Operating cost per ton-mile per hour (with 210% profit)	6.20	4.65	4.03	2.79
Operating cost per ton-mile per hour (with 220% profit)	6.40	4.80	4.16	2.88
Operating cost per ton-mile per hour (with 230% profit)	6.60	4.95	4.29	2.97
Operating cost per ton-mile per hour (with 240% profit)	6.80	5.10	4.42	3.06
Operating cost per ton-mile per hour (with 250% profit)	7.00	5.25	4.55	3.15
Operating cost per ton-mile per hour (with 260% profit)	7.20	5.40	4.68	3.24
Operating cost per ton-mile per hour (with 270% profit)	7.40	5.55	4.81	3.33
Operating cost per ton-mile per hour (with 280% profit)	7.60	5.70	4.94	3.42
Operating cost per ton-mile per hour (with 290% profit)	7.80	5.85	5.07	3.51
Operating cost per ton-mile per hour (with 300% profit)	8.00	6.00	5.20	3.60
Operating cost per ton-mile per hour (with 310% profit)	8.20	6.15	5.33	3.69
Operating cost per ton-mile per hour (with 320% profit)	8.40	6.30	5.46	3.78
Operating cost per ton-mile per hour (with 330% profit)	8.60	6.45	5.59	3.87
Operating cost per ton-mile per hour (with 340% profit)	8.80	6.60	5.72	3.96
Operating cost per ton-mile per hour (with 350% profit)	9.00	6.75	5.85	4.05
Operating cost per ton-mile per hour (with 360% profit)	9.20	6.90	5.98	4.14
Operating cost per ton-mile per hour (with 370% profit)	9.40	7.05	6.11	4.23
Operating cost per ton-mile per hour (with 380% profit)	9.60	7.20	6.24	4.32
Operating cost per ton-mile per hour (with 390% profit)	9.80	7.35	6.37	4.41
Operating cost per ton-mile per hour (with 400% profit)	10.00	7.50	6.50	4.50
Operating cost per ton-mile per hour (with 410% profit)	10.20	7.65	6.63	4.59
Operating cost per ton-mile per hour (with 420% profit)	10.40	7.80	6.76	4.68
Operating cost per ton-mile per hour (with 430% profit)	10.60	7.95	6.89	4.77
Operating cost per ton-mile per hour (with 440% profit)	10.80	8.10	7.02	4.86
Operating cost per ton-mile per hour (with 450% profit)	11.00	8.25	7.15	4.95
Operating cost per ton-mile per hour (with 460% profit)	11.20	8.40	7.28	5.04
Operating cost per ton-mile per hour (with 470% profit)	11.40	8.55	7.41	5.13
Operating cost per ton-mile per hour (with 480% profit)	11.60	8.70	7.54	5.22
Operating cost per ton-mile per hour (with 490% profit)	11.80	8.85	7.67	5.31
Operating cost per ton-mile per hour (with 500% profit)	12.00	9.00	7.80	5.40

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