



Photo courtesy of MTU

**By Ken Hocke, Senior Editor**

The U.S. Environmental Protection Agency’s Tier 3 emissions legislation took effect on Jan. 1 for engines from 100 hp to 4,000-hp with 1.2 liters to 2.5 liters of displacement per cylinder.

There are some exceptions, but diesel engines built to Tier 3 requirements are expected to reduce nitrogen oxide (NOx) and hydrocarbon (HC) output by 20% compared to EPA Tier 2 standards, according to the EPA. Particulate matter (PM) should be reduced by 50%.

Between 2014 and 2017, EPA Tier 4 standards, when compared to Tier 2, are set to reduce NOx output by 80%

and PM by 90%.

For a good reference guide, go to [www.dieselnets.com](http://www.dieselnets.com) and click on “Standards” on the menu at the top of the page.

Meanwhile, **Volvo Penta** recently announced it is offering factory-built, keel-cooled models for its entire line of marine commercial inboard and sterndrive D4 3.7 liter and D6 5.5 liter engines. The D4/D6 keel-cooled version uses twin circuit design, with keel coolers for both the high-temperature engine block circuit and low-temperature charge air cooler circuit.

“By eliminating the need for the seawater pump, these engines are ideal for vessels operating in water contain-

ing high amounts of sand, silt and other debris that can clog up open-circuit cooling systems,” Volvo Penta’s Jens Bering, manager product management, said in a recent release. “The result is reduced maintenance costs and minimized downtime.”

At the 2013 International Work-Boat Show, **Scania** showcased its new 13-liter EPA Tier 3 engine, intended for propulsion and auxiliary use, along with its 16-liter EPA Tier 3 engine.

The output ratings for Scania’s newest version of the 13-liter marine propulsion engine ranges from 250 hp to 675 hp and will continue to have outputs up to 750 hp for international and exempt markets.

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.) L W H	Weight (lbs.)	High Output hp rpm	Medium Duty hp rpm	Continuous Duty hp rpm
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Cat 3056	6	365	3.94x5.0	—	42.05 30.6 31.5	1,312	—	185 @ 2,100 205 @ 2,500	—
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Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm
Cat C7 TA	6	442	4.33x5.0	—	48.1	36.2	36.1	1,760	—	—	125 @ 2,600	—	—	—
Cat C7 (ACERT)	6	442	4.33x5.0	—	48.1	36.2	36.1	1,760	370 @ 2,600	—	275 @ 2,400	—	250 @ 2,400	—
Cat C9 (ACERT TA)	6	538	4.41x5.87	—	47.2	38.3	38.7	2,086	455 @ 2,800	—	315 @ 2,400	—	—	—
Cat C12 TA	12	732	5.1x5.9	—	62	38.1	39.5	2,588	503 @ 2,500	—	—	—	—	—
Cat C12 (ACERT) TA	6	732	5.1x5.9	—	62	38.1	39.5	2,588	567 @ 2,500	—	385 @ 1,800	—	340 @ 1,800	—
Cat C15 (ACERT) TA	6	—	—	—	—	—	—	3,226	570 @ 2,300	—	454 @ 2,100	—	—	—
Cat C18 TA	6	1,106	5.7x7.2	—	61.3	41.6	46.4	3,700- 4,200	600 @ 2,300	—	490 @ 2,300	—	—	—
									660 @ 2,300	—	—	—	—	—
									705 @ 2,300	—	—	—	—	—
									800 @ 2,300	—	—	—	—	—
									853 @ 2,300	—	—	—	—	—
									873 @ 2,200	—	479 @ 1,800	—	340 @ 1,800	—
									1,001 @ 2,300	—	385 @ 1,800	—	454 @ 1,800	—
									—	—	553 @ 2,100	—	587 @ 1,800	—
									—	—	600 @ 1,800	—	—	—
									—	—	671 @ 2,100	—	—	—
									—	—	715 @ 2,100	—	—	—
Cat C18 (ACERT) TA, TTA	6	1,106	5.7x7.2	—	62.6	44	46.5	3,700- 4,200	873 @ 2,200	—	553 @ 2,100	—	454 @ 1,800	—
									918 @ 2,100	—	670 @ 2,100	—	479 @ 1,800	—
									1,001 @ 2,300	—	715 @ 2,100	—	600 @ 1,800	—
									1,136 @ 2,300	—	—	—	—	—
Cat C32 (ACERT)	12	1,959	5.71x6.38	—	77.8	55.4	54.4	7,100- 7,300	1,600 @ 2,300***	—	1,300 @ 2,100	—	660 @ 1,800***	—
									—	—	—	—	660 @ 1,600***	—
									1,700 @ 2,300***	—	1,450 @ 2,300***	—	750 @ 1,800***	—
									—	—	—	—	750 @ 1,600***	—
									1,800 @ 2,300***	—	1,600 @ 2,300***	—	850 @ 1,800***	—
									—	—	—	—	850 @ 1,600***	—
									1,900 @ 2,300***	—	1,200 @ 1,800***	—	950 @ 1,600	—
									—	—	1,300 @ 1,800-	—	1,000 @ 1,800***	—
									—	—	2,100***	—	—	—
									—	—	1,450 @ 2,300***	—	—	—
									—	—	1,600 @ 2,300***	—	—	—
Cat 3508 TTA	8	2,105	6.7x7.5	—	81.8	67.1	71	11,499	1,150 @ 1,800	—	805 @ 1,300	—	705 @ 1,200	—
									—	—	905 @ 1,600	—	855 @ 1,600	—
									—	—	960 @ 1,800	—	855 @ 1,800	—
									—	—	820 @ 1,300	—	—	—
									—	—	1,000 @ 1,800	—	—	—
Cat 3508B TTA	8	2,105	6.7x7.5	—	90.9	67.1	71	10,181- 11,499	1,400 @ 1,880*	—	850 @ 1,200	—	775 @ 1,200	—
									1,500 @ 1,925*	—	960 @ 1,600	—	855 @ 1,600	—
									—	—	960 @ 1,800	—	855 @ 1,800	—
									—	—	1,050 @ 1,600	—	1,000 @ 1,600	—
									—	—	1,050 @ 1,800	—	1,000 @ 1,800	—
									—	—	900 @ 1,200	—	—	—
									—	—	1,000 @ 1,600	—	—	—
									—	—	1,100 @ 1,800	—	—	—
									—	—	1,200 @ 1,685*	—	—	—
									—	—	1,600 @ 1,600*	—	—	—
Cat 3508C TTA	8	2,107	6.7x7.5	—	83.4	67	72	10,935	—	—	850 @ 1,200	—	775 @ 1,200	—
									—	—	900 @ 1,200	—	1,000 @ 1,600	—
									—	—	1,050 @ 1,600	—	—	—
									—	—	1,100 @ 1,600	—	—	—
Cat 3512 TTA	12	3,158	6.7x7.5	—	107	67.1	80.8	14,398- 14,411	1,750 @ 1,800	—	1,301 @ 1,200	—	1,207 @ 1,200	—
									—	—	1,360 @ 1,600	—	1,280 @ 1,600	—
									—	—	1,445 @ 1,800	—	1,280 @ 1,800	—
									—	—	1,408 @ 1,200	—	—	—
									—	—	1,410 @ 1,600	—	—	—
									—	—	1,500 @ 1,800	—	—	—
Cat 3512B TTA	12	3,158	6.7x7.5	—	121	70.2	82.3	14,398- 14,411	2,100 @ 1,880*	—	1,155 @ 1,200	—	1,100 @ 1,200	—
									2,250 @ 1,925*	—	1,260 @ 1,200	—	1,280 @ 1,600	—
									—	—	1,750 @ 1,600	—	1,300 @ 1,200	—
									—	—	1,350 @ 1,200	—	1,500 @ 1,200-	—
									—	—	—	—	1,800	—
									—	—	1,360 @ 1,600	—	1,500 @ 1,800***	—
									—	—	1,360 @ 1,800	—	1,500 @ 1,200	—
									—	—	1,575 @ 1,600	—	1,675 @ 1,600	—
									—	—	1,575 @ 1,800	—	1,810 @ 1,600	—
									—	—	1,210 @ 1,200	—	—	—
									—	—	1,300 @ 1,200	—	—	—
									—	—	1,410 @ 1,600	—	—	—
									—	—	1,410 @ 1,800	—	—	—
									—	—	1,475 @ 1,200	—	—	—
									—	—	1,650 @ 1,600	—	—	—
									—	—	1,650 @ 1,800	—	—	—
									—	—	1,800 @ 1,785*	—	—	—
									—	—	1,950 @ 1,835*	—	—	—
									—	—	1,800 @ 1,785*	—	—	—
									—	—	1,810 @ 1,600**	—	—	—
									—	—	2,012 @ 1,600**	—	—	—
Cat 3512B TTA	12	3,576	6.7x7.5	—	121	70.2	82.3	14,144- 14,398	—	—	1,650 @ 1,600	—	1,500 @ 1,200-	—
									—	—	—	—	1,800	—
									—	—	1,911 @ 1,600	—	1,675 @ 1,600	—
									—	—	1,850 @ 1,600	—	1,810 @ 1,600	—
									—	—	2,012 @ 1,600	—	—	—
Cat 3512C TTA	12	3,161	6.69x7.48	—	105.1	87.9	88.3	14,400- 16,340	—	—	1,650 @ 1,800	—	1,280 @ 1,600	—
									—	—	1,359 @ 1,600	—	1,300 @ 1,200	—
									—	—	1,400 @ 1,200	—	1,400 @ 1,600	—
									—	—	1,409 @ 1,600	—	1,500 @ 1,800	—
									—	—	1,500 @ 1,600	—	—	—
									—	—	1,500 @ 1,200	—	—	—
									—	—	1,575 @ 1,800	—	—	—
									—	—	1,600 @ 1,600	—	—	—
Cat 3512C	12	3,574	6.69x8.46	—	105.1	87.9	88.3	14,400-	2,541 @ 1,800**	—	1,600 @ 1,200**	—	1,500 @ 1,200**	—

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm
TTA**								16,340	2,551 @ 1,800**	1,700 @ 1,200	1,676 @ 1,600			
									—	1,749 @ 1,600**	1,810 @ 1,600**			
									—	1,851 @ 1,600**	—			
									—	1,911 @ 1,600**	—			
									—	2,250 @ 1,800**	—			
									—	2,012 @ 1,600**	—			
									—	2,365 @ 1,800**	—			
Cat 3512C HD Tier 3	12	3,574	6.69x8.46	—	127.2	85	86.8	17,386	—	2,011 @ 1,600	1,810 @ 1,600			
									—	1,910 @ 1,600	1,501 @ 1,600			
									—	1,649 @ 1,600	1,340 @ 1,600			
									—	1,575 @ 1,600	1,501 @ 1,800			
									—	1,649 @ 1,800	—			
									—	1,575 @ 1,800	—			
									—	2,366 @ 1,800	—			
									—	2,249 @ 1,800	—			
Cat 3516 TTA	16	4,210	6.7x7.5	—	145.3	67.1	80.8	17,699	2,200 @ 1,800	1,676 @ 1,200	1,603 @ 1,200			
									—	1,810 @ 1,600	1,710 @ 1,600			
									—	1,920 @ 1,800	1,710 @ 1,800			
									—	1,750 @ 1,200	—			
									—	2,000 @ 1,800	—			
Cat 3516B TTA	16	4,210	6.7x7.5	—	146.7	80.8	82.3	17,185- 17,699	2,800 @ 1,880* 3,000 @ 1,925	1,750 @ 1,200	1,650 @ 1,200			
									—	2,100 @ 1,600	2,682 @ 1,925*			
									—	2,100 @ 1,800	2,000 @ 1,600			
									—	1,850 @ 1,200	2,000 @ 1,800			
									—	2,200 @ 1,600	2,000 @ 1,800***			
									—	2,682 @ 1,600	—			
									—	2,400 @ 1,785*	—			
Cat 3516B TTA**	16	4,766	6.7x8.5	—	141.1	84.4	81.9	17,185- 17,699	—	2,375 @ 1,600	1,875 @ 1,200			
									—	2,575 @ 1,600	2,260 @ 1,600			
									—	2,500 @ 1,600	2,447 @ 1,600			
									—	2,682 @ 1,600	—			
Cat 3516C TTA**	16	4,765	6.69x8.46	—	125.4	84.3	84.6	17,550- 19,025	3,386 @ 1,800** 2,816 @ 1,600	2,375 @ 1,600	2,000 @ 1,600			
									—	2,575 @ 1,600	2,448 @ 1,600			
									—	3,004 @ 1,800	—			
									—	2,500 @ 1,600	—			
									—	2,682 @ 1,600	—			
									—	3,151 @ 1,800	—			
Cat 3516C TTA	16	4,211	6.69x7.48	—	148	84.3	84.6	17,550- 19,025	—	1,750 @ 1,200	—			
									—	2,100 @ 1,600	—			
									—	1,850 @ 1,200	—			
									—	2,216 @ 1,600	—			
Cat 3516C HD	16	4,765	6.69x8.46	—	125.7	89.9	87.6	19,454	3,385 @ 1,800	2,681 @ 1,600	2,446 @ 1,600			
									—	2,574 @ 1,600	2,131 @ 1,600			
									—	2,346 @ 1,600	—			
									—	2,239 @ 1,600	—			
									—	3,150 @ 1,800	—			
									—	3,003 @ 1,800	—			
Cat C280-6	6	6,773	11.0x11.8	—	158	71	108	34,496	—	2,548 @ 900	2,320 @ 900			
									—	2,722 @ 1,000	2,481 @ 1,000			
Cat C280-8	8	9,031	11.0x11.8	—	195	71	104	41,800	—	3,393 @ 900	3,084 @ 900			
									—	3,634 @ 1,000	3,299 @ 1,000			
Cat C280 12 TTA	12	13,546	11.0x11.8	—	182	80	134	57,276	—	5,096 @ 900	4,640 @ 900			
									—	5,444 @ 1,000	4,962 @ 1,000			
Cat C280 16 TTA	16	18,062	11.0x11.8	—	224	80	134	62,832	—	7,268 @ 1,000	6,598 @ 1,000			
									—	6,785 @ 900	6,169 @ 900			
									—	7,577 @ 1,000	—			

\*Fuel consumption tolerance +5%. Reflects European standards. \*\*High-displacement engine (HD). \*\*\*Wide operating speed range.

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MaK 6 M 20 C	6	3,478	7.9x11.8	—	159.4	61.4	107.4	11,500	—	—	1,390 @ 900		
									—	—	1,469 @ 900		
									—	—	1,550 @ 1,000		
									—	—	1,632 @ 1,000		
MaK 6 M 25 C	6	7,505	7.9x11.8	—	210.4	88.2	148.5	23,500	—	—	2,370 @ 720		
									—	—	2,450 @ 750		
									—	—	2,856 @ 720		
									—	—	2,856 @ 750		
									—	—	2,720 @ 720		
									—	—	2,720 @ 750		
MaK 6 M 32 C	6	14,155	12.6x18.9	—	234	93.3	169.8	39,500	—	—	3,920 @ 600		
									—	—	4,080 @ 600		
MaK 6 M 43 C	6	32,398	16.9x24	—	234	93.3	169.8	—	—	—	7,344 @ 500		
									—	—	7,344 @ 514		
									—	—	8,160 @ 500		
MaK 7 M 43 C	7	37,828	16.9x24	—	234	93.3	169.8	—	—	—	8,160 @ 514		
									—	—	8,568 @ 500		
									—	—	8,568 @ 514		
									—	—	9,520 @ 500		
									—	—	9,520 @ 514		
									—	—	9,996 @ 500		
									—	—	9,996 @ 514		
MaK 8 M 20 C	8	4,576	7.9x11.8	—	190.9	66.7	113	14,500	—	—	1,850 @ 900		
									—	—	1,958 @ 900		
									—	—	2,070 @ 1,000		
									—	—	2,176 @ 1,000		
MaK 8 M 25 C	8	9,945	10x15.7	—	247.6	90.4	154.2	30,000	—	—	3,160 @ 720		
									—	—	3,808 @ 720		

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm
									—	—			3,808 @ 750	
									—	—			3,260 @ 750	
									—	—			3,630 @ 750	
									—	—			3,630 @ 720	
MaK 8 M 32 C	8	18,853	12.6x18.9	—	281.5	85.8	172.1	108,027	—	—			5,220 @ 600	
									—	—			5,440 @ 600	
MaK 8 M 43 C	8	43,258	16.9x24	—	281.5	85.8	172.1	251,327	—	—			9,792 @ 500	
									—	—			9,792 @ 514	
									—	—			10,880 @ 500	
									—	—			10,880 @ 514	
									—	—			11,424 @ 500	
									—	—			11,424 @ 514	
MaK 9 M 20 C	9	—	—	—	—	—	—	15,000	—	—			2,082 @ 900	
									—	—			2,203 @ 900	
									—	—			2,326 @ 1,000	
									—	—			2,448 @ 1,000	
MaK 9 M 25 C	9	11,226	10x15.7	—	210.4	90.4	154.2	32,000	—	—			3,550 @ 720	
									—	—			3,880 @ 720	
									—	—			3,670 @ 750	
									—	—			4,080 @ 720	
									—	—			4,080 @ 750	
									—	—			4,284 @ 720	
									—	—			4,284 @ 750	
MaK 9 M 32 C	9	21,171	12.6x18.9	—	308.7	85.8	179.8	112,436	—	—			6,120 @ 600	
									—	—			5,880 @ 600	
MaK 9 M 43 C	9	48,627	16.9x24	—	308.7	85.8	179.8	279,987	—	—			11,016 @ 500	
									—	—			11,016 @ 514	
									—	—			12,240 @ 500	
									—	—			12,240 @ 514	
									—	—			12,852 @ 500	
									—	—			12,852 @ 514	
MaK 12 M 32 C	12	24,715	12.6x18.1	—	—	—	—	143,301	—	—			7,830 @ 720	
									—	—			8,160 @ 720	
									—	—			8,160 @ 750	
									—	—			8,650 @ 720	
									—	—			8,650 @ 750	
									—	—			9,139 @ 720	
									—	—			9,139 @ 750	
MaK 12 M 43 C	12	64,857	16.9x24	—	—	—	—	352,740	—	—			14,688 @ 500	
									—	—			14,688 @ 514	
									—	—			16,320 @ 500	
									—	—			16,320 @ 514	
									—	—			17,136 @ 500	
									—	—			17,536 @ 514	
MaK 16 M 32 C	16	33,008	12.6x16.5	—	339.4	114.8	191.5	180,779	—	—			10,880 @ 720	
									—	—			10,880 @ 750	
									—	—			10,445 @ 720	
									—	—			11,533 @ 720	
									—	—			11,533 @ 750	
									—	—			12,186 @ 720	
									—	—			12,186 @ 750	
MaK 16 M 43 C	16	86,455	16.9x24	—	339.4	114.8	191.5	485,017	—	—			19,584 @ 500	
									—	—			19,584 @ 514	
									—	—			21,760 @ 500	
									—	—			21,760 @ 514	
									—	—			22,848 @ 500	
									—	—			22,848 @ 514	

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NTA855-M* (Intermittent)	6	855	5.50x6.0	—	61.0	32.0	53.0	3,160	—	—			325 @ 1,800
KTA19-M3*	6	1,150	6.25x6.25	—	74.0	40.0	75.0	4,570	—	—			400 @ 1,800
									—	—			500 @ 1,800
									—	—			530 @ 1,800
									640 @ 1,800	—			—
KTA19-M3*	6	1,150	6.25x6.25	—	74.0	40.0	75.0	4,570	—	—			600 @ 1,800
KTA19-M4	6	1,150	6.25x6.25	—	74.0	40.0	75.0	4,570	700 @ 2,100	—			—
QSK19-M**	6	1,150	6.25x6.26	—	79.0	38.0	74.0	4,825	750 @ 1,800	—			600 @ 1,800
									760 @ 2,100	—			660 @ 1,800
									800 @ 2,100	—			500 @ 1,800
									—	—			750 @ 1,800
									—	—			800 @ 2,100
KTA 38-M	12	2,300	6.25x6.25	—	84.0	58.0	82.0	9,300	—	—			850 @ 1,800
									—	—			1,000 @ 1,800
									—	—			850 @ 1,800
KTA38-MO	12	2,300	6.25x6.25	—	84.0	58.0	82.0	9,300	—	—			750 @ 1,600
									—	—			800 @ 1,800
									—	—			850 @ 1,800
KTA38-M1	12	2,300	6.25x6.25	—	84.0	58.0	82.0	9,300	1,100 @ 1,800	—			900 @ 1,600
									—	—			1,000 @ 1,800
KTA38-M2	12	2,300	6.25x6.25	—	84.0	58.0	82.0	9,300	1,300 @ 1,800	—			1,050 @ 1,600
									1,350 @ 1,950	1,400 @ 1,950			(int.) 1,500 @ 2,050
									1,350 @ 1,900	—			850 @ 1,800
									—	—			1,000 @ 1,800
KTA38-M2*	12	2,300	6.25x6.25	—	84	58	82	9,300	1,350 @ 1,900	—			1,200 @ 1,800
KTA50-M2	16	3,067	6.25x6.25	—	106	62	89	11,389	1,600 @ 1,900	1,875 @ 1,950			1,400 @ 1,600*
									1,700 @ 1,800	—			—

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm
KTA-M2*	16	3,067	6.25x6.25	—	106	62	89	11,389	1,800 @ 1,900*		—		1,600 @ 1,800	
QSK38-M**	12	2,300	6.25x6.25	—	84	58	82	10,230	1,800 @ 1,900		—		1,200 @ 1,800	
									1,400 @ 1,800		—		1,300 @ 1,800	
QSK38-M1	12	2,300	6.25x6.25	—	90	62	88	10,604	1,800 @ 1,800*		—		1,600 @ 1,800*	
QSK50-M**	16	3,067	6.25x6.25	—	125	65	83	14,584	1,800 @ 1,900*		—		1,700 @ 1,800*	
QSK50-M1	16	3,068	6.25x6.25	—	109	62	88	13,594	1,800 @ 1,600*		—		1,700 @ 1,600**	
									1,800 @ 1,800**		—		1,700 @ 1,800*	
									1,800 @ 1,900**		—		1,800 @ 1,900	
QSK60-M**	16	3,672	6.25x7.48	—	130	69	95	19,300	2,300 @ 1,900*		2,500 @ 1,900**		2,000 @ 1,600**	
									—		2,700 @ 1,900*		2,000 @ 1,800*	
									—		—		2,200 @ 1,800**	
									—		—		2,680 @ 1,900**	
									—		—		(Intermittent)	
									—		—		2,700 @ 1,900*	
									—		—		(Intermittent)	
QSB5.9-230	6	359	4.02x4.72	—	40.8	32.9	34.6	1,350	—		230 @ 2,600		—	
QSB5.9-305	6	359	4.02x4.72	—	40.8	32.9	34.6	1,350	—		305 @ 2,600		—	
QSB5.9-330	6	359	4.02x4.72	—	40.8	32.9	34.6	1,350	—		330 @ 2,600		—	
QSB5.9-355	6	359	4.02x4.72	—	40.8	32.9	34.6	1,350	—		355 @ 2,800		355 @ 1,800	
QSC8.3-500	6	505	4.49x5.31	—	46.2	33.0	38.8	1,975	—		500 @ 2,600		—	
K38-M**	12	2,300	6.25x6.25	—	84.0	58.0	82.0	9,300	—		—		850 @ 1,800	
									—		—		1,000 @ 1,800	
QSB6.7**	6	408	4.21x4.88	—	42.3	35.35	33.74	1,398	247 @ 3,000		—		227 @ 3,000	
									301 @ 2,600		—		(Intermittent)	
									—		—		349 @ 2,800	
									—		—		(Intermittent)	
									—		—		375 @ 3,000	
									—		—		(Intermittent)	
									—		—		425 @ 3,000	
									—		—		(Intermittent)	
									—		—		473 @ 3,300	
									—		—		(Gov. Services)	
									—		—		542 @ 3,300	
									—		—		(Gov. Services)	
QSC8.3**	6	505	4.49x5.31	—	46.2	33	38.7	1,975	—		—		592 @ 3,000	
									—		—		(Gov. Services)	
									—		—		493 @ 2,600	
									—		—		(Intermittent)	
QSL9 290	6	542	4.49x5.71	—	46.2	33.2	42.8	2,000	326 @ 1,800*		400 @ 2,100*		285 @ 1,800*	
QSL 9 335	6	542	4.49x5.71	—	46.2	33.2	42.8	2,000	330 @ 1,800**		—		—	
QSL 9 410	6	542	4.49x5.71	—	46.2	33.2	42.8	2,000	—		405 @ 2,100		—	
QSM11-300*	6	661	4.92x5.79	—	52.3	43.5	39.9	2,620	—		—		295 @ 1,800*	
QSM11-355*	6	661	4.92x5.79	—	52.3	42.5	40.9	2,620	—		—		350 @ 1,800*	
QSM11-405*	6	661	4.92x5.79	—	52.3	42.5	40.9	2,610	400 @ 2,100		—		—	
QSM 11-455*	6	661	4.92x5.79	—	52.3	42.5	40.9	2,620	—		450 @ 2,100		—	
QSM 11-610**	6	661	4.92x5.79	—	52.3	43.5	39.9	2,620	—		—		602 @ 2,300	
									—		—		(Intermittent)	
QSM 11-670**	6	661	4.92x5.79	—	52.3	43.5	39.9	2,620	—		—		661 @ 2,300	
									—		—		(Gov. Services)	
QSM 11-715**	6	661	4.92x5.79	—	52.3	43.5	39.9	2,620	—		—		705 @ 2,500	
									—		—		(Gov. Services)	
									PRIME POWER					
6BT5.9-D(M)	6	359	4.02x4.75	—	40	24	47	940	104 @ 1,500		—		—	
									122 @ 1,500		—		—	
									121 @ 1,800		—		—	
									150 @ 1,800		—		—	
QSB7-DM	6	408	4.21x4.88	—	50.5	37.5	39.1	1,561	132 @ 1,800**		—		—	
									150 @ 1,800**		—		—	
									164 @ 1,500*		—		—	
									174 @ 1,800**		—		—	
									190 @ 1,800**		—		—	
									220 @ 1,500*		—		—	
									250 @ 1,800**		—		—	
									282 @ 1,800**		—		—	
QSM11-DM	6	661	4.92x5.79	—	58	43	41	2,464	355 @ 1,500*		—		—	
									355 @ 1,800**		—		—	
									425 @ 1,800**		—		—	
6CTA8.3M	6	505	4.49x5.32	—	47	28	45	1,505	164 @ 1,500		—		—	
									188 @ 1,800		—		—	
6CTA8.3-D M	6	505	4.92x5.79	—	58	43	41	1,545	355 @ 1,500*		—		—	
									270 @ 1,800		—		—	
									252 @ 1,800		—		—	
									242 @ 1,800		—		—	
									220 @ 1,500		—		—	
									219 @ 1,500		—		—	
NT855-DM	6	855	5.50x6.0	—	61	32	53	3,060	280 @ 1,500		—		—	
									310 @ 1,500		—		—	
									325 @ 1,500		—		—	
									340 @ 1,800		—		—	
									355 @ 1,800		—		—	
									395 @ 1,800		—		—	
NTA855-DM	6	855	5.50x6.0	—	61	32	53	3,160	450 @ 1,500		—		—	
									365 @ 1,800*		—		—	
									375 @ 1,500		—		—	
									380 @ 1,500*		—		—	
									410 @ 1,500		—		—	
									420 @ 1,800		—		—	
									480 @ 1,800		—		—	
KTA19-DM	6	1,150	6.25x6.25	—	74.0	40.0	75.0	4,570	525 @ 1,800		—		—	

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm
									450 @ 1,500					
									540 @ 1,500					
									600 @ 1,500					
									620 @ 1,800					
									680 @ 1,800					
KTA19-DM1*	6	1,150	6.25x6.25	—	74.0	40.0	75.0	4,570	480 @ 1,500*					
									550 @ 1,500*					
									570 @ 1,800*					
									650 @ 1,800*					
QSK19-DM**	6	1,150	6.25x6.25	—	79.0	38.0	74.0	4,825	580 @ 1,500*					
									755 @ 1,800**					
VTA28-DM*	12	1,710	5.50x6.0	—	75.0	39.0	65.0	6,395	565 @ 1,500*					
									690 @ 1,800					
									750 @ 1,500*					
									750 @ 1,800					
									815 @ 1,800					
KTA38-DM	12	2,300	6.25x6.25	—	84	58	82	9,300	850 @ 1,500					
									890 @ 1,500					
									1,030 @ 1,800					
									1,080 @ 1,500					
									1,085 @ 1,800					
									1,180 @ 1,500					
									1,220 @ 1,800					
									1,350 @ 1,800					
KTA38-DM1	12	2,300	6.25x6.25	—	84	58	82	9,300	1,000 @ 1,500					
									1,100 @ 1,800					
									1,180 @ 1,500*					
									1,300 @ 1,800*					
QSK38-DM*	12	2,300	6.25x6.25	—	106	65	79	10,230	1,400 @ 1,800					
									1,320 @ 1,500					
QSK38 DM1	12	2,300	6.25x6.25	—	90	62	88	11,973	1,320 @ 1,500**					
									1,400 @ 1,800					
KTA50-DM	16	3,067	6.25x6.25	—	106	62	89	11,973	1,180 @ 1,500					
									1,206 @ 1,500					
									1,340 @ 1,800					
									1,350 @ 1,800					
									1,470 @ 1,500					
									1,635 @ 1,800					
KTA50-D(M1)	16	3,067	6.25x6.25	—	106	62	89	11,973	1,350 @ 1,500					
									1,530 @ 1,800					
KTA50-D(M1)*	16	3,067	6.25x6.25	—	106	62	89	11,973	1,470 @ 1,500*					
									1,730 @ 1,800*					
QSK50-DM	16	3,068	6.25x6.25	—	125	65	83	14,584	1,630 @ 1,500*					
									1,800 @ 1,800*					
QSK60-DM	16	3,672	6.25x7.48	—	130	69	95	19,300	2,095 @ 1,500					
									2,547 @ 1,800					

\* IMO Tier II Certified. \*\* EPA Tier 3 and IMO Tier II Certified.

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MECHANICAL ENGINES												
4BT3.9-150	4	239	4.02x4.72	—	30.7	27.7	30.4	932	—	—	150 @ 2,800	155 @ 2,800
6BT5.9-152	6	359	4.02x4.72	—	42.3	28.0	32.0	1,120	—	—	152 @ 2,500	—
6BT5.9-180	6	359	4.02x4.72	—	42.3	28.0	32.0	1,120	—	—	180 @ 2,800	—
6BT5.9-210/	6	359	4.02x4.72	—	42.3	28.0	32.0	1,120	—	—	210 @ 2,600	—
											(Intermittent)	
6BT5.9	6	359	4.02x4.72	—	40.5	32.5	33.0	1,140	—	—	220 @ 2,600	—
											(Intermittent)	
6BTA5.9	6	359	4.02x4.72	—	40.5	32.5	33.0	1,140	—	—	260 @ 2,600	—
											(Intermittent)	
6BTA5.9	6	359	4.02x4.72	—	41.0	32.2	30.4	1,280	—	—	270 @ 2,800	—
											(Intermittent)	
6BTA5.9	6	359	4.02x4.72	—	41.0	32.2	30.4	1,280	—	—	315 @ 2,800	—
											(Intermittent)	
6BTA5.9	6	359	4.02x4.72	—	41.0	32.2	30.4	1,280	—	—	330 @ 2,800	—
											(Intermittent)	
6CTA8.3	6	505	4.49x5.31	—	45.7	35.8	36.3	1,885	—	—	430 @ 2,600	—
											(Intermittent)	
6CTA8.3	6	505	4.49x5.31	—	45.7	35.8	36.3	1,885	—	—	450 @ 2,600	—
											(Intermittent)	
NTA855-M	6	855	5.5x6.0	—	77.8	36.8	62.9	3,150	—	—	—	350 @ 1,800
ELECTRONIC ENGINES												
QSB5.9-230	6	359	4.02x4.72	—	40.8	32.9	34.6	1,350	—	—	230 @ 2,600	—
QSB5.9-305	6	359	4.02x4.72	—	40.8	32.9	34.6	1,350	—	—	305 @ 2,600	—
QSB5.9-330	6	359	4.02x4.72	—	40.8	32.9	34.6	1,350	330 @ 2,600	—	330 @ 2,600	—
QSB5.9-355	6	359	4.02x4.72	—	40.8	32.9	34.6	1,350	—	—	355 @ 2,800	355 @ 1,800
QSC8.3-500	6	505	4.49x5.31	—	46.2	33.0	38.8	1,975	—	—	500 @ 2,600	—
QSM11-300	6	661	4.92x5.79	—	52.3	42.5	40.9	2,610	—	—	—	300 @ 1,800
QSM11-355	6	661	4.92x5.79	—	52.3	42.5	40.9	2,610	—	—	—	355 @ 1,800
QSM11-405	6	661	4.92x5.79	—	52.3	42.5	40.9	2,610	—	—	405 @ 2,100	—
QSM11-455	6	661	4.92x5.79	—	52.3	42.5	40.9	2,610	—	—	455 @ 2,100	—
QSM11-610	6	661	4.92x5.79	—	52.3	43.5	39.9	2,620	—	—	610 @ 2,300	—

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm

## JOHN DEERE POWER SYSTEMS

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4045DFM50	4	276	4.19x5.00	w/o	29.8	29.8	35.5	963	—	—	85 @ 2,500	75 @ 2,400
4045DFM70	4	276	4.19x5.00	w/o	29.8	26.6	35.4	963	—	—	80 @ 2,500	—
4045TFM50	4	276	4.19x5.00	w/o	29.4	32.5	35.9	1,017	150 @ 2,600	—	135 @ 2,500	105 @ 2,300
4045TFM75	4	276	4.19x5.00	w/o	29.4	32.6	34.7	1,019	—	—	135 @ 2,600	107 @ 2,400
4045AFM85	4	276	4.19x5.00	w/o	29.6	30.3	38	1,274	225 @ 2,600	—	200 @ 2,500	160 @ 2,300
6068SFM50	6	414	4.19x5.00	w/o	41.3	34.4	34.7	1,710	300 @ 2,600	—	236 @ 2,600	—
6068SFM75	6	414	4.19x5.00	w/o	40.7	35.7	35.9	1,682	400 @ 2,800	—	321 @ 2,600	249 @ 2,400
6068AFM75	6	414	4.19x5.00	w/o	40.7	33.6	35.9	1,732	330 @ 2,600	—	300 @ 2,500	230 @ 2,300
6068AFM85	6	414	4.19x5.00	w/o	40.7	33.6	35.9	1,732	330 @ 2,600	—	300 @ 2,500	230 @ 2,300
6068TFM50	6	414	4.19x5.00	w/o	39.5	32.6	34.7	1,609	225 @ 2,600	—	175 @ 2,400	154 @ 2,300
6068TFM75	6	414	4.19x5.00	w/o	39.5	32.6	34.7	1,609	—	—	201 @ 2,600	158 @ 2,400
6068SFM85	6	414	4.19x5.00	w/o	40.7	35.7	35.9	1,682	400 @ 2,800	—	321 @ 2,600	249 @ 2,400
6090AFM75	6	548	4.66x5.35	w/o	51.1	36.9	37.5	2,229	425 @ 2,400	—	375 @ 2,300	285 @ 2,100
6090SFM75	6	548	4.66x5.35	w/o	50.9	38.4	38.7	2,350	550 @ 2,500	—	425 @ 2,300	325 @ 2,100
6090AFM85	6	548	4.66x5.35	w/o	51.1	36.9	37.5	2,229	425 @ 2,400	—	375 @ 2,300	285 @ 2,100
6090SFM85	6	548	4.66x5.35	w/o	50.9	38.4	38.7	2,350	550 @ 2,500	—	425 @ 2,300	325 @ 2,100
6135AFM85	6	824	5.20x6.50	w/o	51.8	42.3	45.9	3,300	575 @ 2,100	—	500 @ 2,000	365 @ 1,800
6135SFM85	6	824	5.20x6.50	w/o	52.5	38.4	45	3,362	750 @ 2,200	—	575 @ 2,000	425 @ 1,800

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BF4M1013M	4L	290.47	4.2x5.1	—	44.3	22.2	46.7	1,102	—	—	127 @ 2,300	97 @ 1,900
BF4M1013MC	4L	290.47	4.2x5.1	—	44.3	22.2	46.7	1,213	—	—	158 @ 2,300	109 @ 2,300
BF6M1013M	6L	436.32	4.2x5.1	—	55.4	33.5	47.1	1,433	—	—	173 @ 2,300	119 @ 1,900
BF6M1013MC	6L	436.32	4.2x5.1	—	55.4	33.5	47.1	1,543	—	—	233 @ 2,300	137 @ 2,300
BF6M1013MCP	6L	436.32	4.2x5.1	—	55.4	33.5	47.1	1,543	—	—	261 @ 2,300	145 @ 1,900
BF6M1015M	6V	726.79	5.2x5.7	—	54.3	51.8	45.6	2,381	—	—	322 @ 2,100	165 @ 2,300
BF6M1015MC	6V	726.79	5.2x5.7	—	58.3	51.8	44.8	2,602	—	—	402 @ 2,100	174 @ 1,900
BF8M1015MC	8V	968.45	5.2x5.7	—	64.9	52.5	41.6	3,043	—	—	450 @ 2,100	198 @ 2,300
TCD 2015M V6	6V	726.18	5.2x5.7	—	59.5	51.8	44.9	2,909	—	—	489 @ 1,900	189 @ 1,800
TCD 2015M V8	8V	970.27	5.2x5.7	—	67.1	52.4	44.9	3,394	—	—	489 @ 2,100	223 @ 2,300
											666 @ 1,800	272 @ 1,800
											680 @ 1,900	287 @ 2,100
											680 @ 2,100	332 @ 1,800
											680 @ 2,100	350 @ 2,100
											680 @ 2,100	365 @ 1,800
											680 @ 2,100	385 @ 2,100
											680 @ 2,100	442 @ 1,800
											680 @ 2,100	466 @ 2,100
											680 @ 2,100	488 @ 1,800
											680 @ 2,100	513 @ 2,100
											680 @ 2,100	528 @ 1,800
											680 @ 2,100	545 @ 1,900
											680 @ 2,100	545 @ 2,100
											680 @ 2,100	598 @ 1,800
											680 @ 2,100	612 @ 1,900
											680 @ 2,100	612 @ 2,100

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EMD 8-710	8	710	9-1/16x11	—	144	77	109	26,000	—	—	2,200 @ 900	2,000 @ 900
G7C-T3												
EMD 12-710	12	710	9-1/16x11	—	185	77	116	33,000	—	—	3,300 @ 900	3,000 @ 900
G7C-T3												
EMD 16-710	16	710	9-1/16x11	—	223	77	116	40,500	—	—	4,400 @ 900	4,000 @ 900
G7C-T3												
EMD 20-710	20	710	9-1/16x11	—	257	77	124	46,600	—	—	5,500 @ 900	5,000 @ 900
G7C-T3												

\* All engines are available in EPA Tier 3 configuration at the same ratings.

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FM-MAN	9	—	10.6x15.0	—	252	82	143	90,388	—	—	—	4,100 @ 800
L27/28												
Opposed Piston	12	—	8.1x10.0	—	365	130	130	85,979	—	—	—	4,416 @ 900
38D 8 1/8												
FM/ALCO 251 F	18	—	9.0x10.5	—	412	106	137	94,797	—	—	—	4,008 @ 1,100
Colt-Pielstick	20	—	11.0x13.0	—	443	78	142	171,958	—	—	—	9,380 @ 900
PA6B												

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm
FM-MAN L, V 32/40	18	—	12.6x15.7	—	337	147	167	189,595	—	—	—	—	11,592 @ 750	
FM-MAN L 40/54	9	—	15.7x21.3	—	394	111	172	213,846	—	—	—	—	8,694 @ 550	
Colt-Pielstick PA6B STC	20	—	11.0x13.0	—	315	104	135	90,388	—	—	—	—	10,860 @ 1,050	
FM-MAN 28/33D Plus	20	—	11.0x13.8	—	265	76	133	108,245	—	—	—	—	13,420 @ 1,000	
Colt-Pielstick PC2.5 STC	18	—	15.7x18.1	—	357	149	148	200,618	—	—	—	—	11,700 @ 520	
FM-MAN L, V 48/60B	18	—	18.9x23.6	—	507	217	195	582,014	—	—	—	—	24,120 @ 500	
Colt-Pielstick PC2.6B	20	—	15.7x19.7	—	466	157	188	308,644	—	—	—	—	20,100 @ 600	
FM-MAN L 58/64	9	—	22.8x25.2	—	496	139	202	478,398	—	—	—	—	16,776 @ 428	
Colt-Pielstick PC4 2B	18	—	22.4x26.0	—	413	224	252	727,518	—	—	—	—	31,986 @ 430	

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 3190 SW 4th Ave. • Fort Lauderdale, FL 33315  
 www.mshs.com • E-mail: torsten.schmitt@mshs.com

S30 230 (SOFIM 230)	4	3.0	3.77x4.09	—	37.8	30.1	29.6	728	230 @ 4,000	176 @ 3,500	—	—
N45 100 (N 100)	4	4.5	4.09x5.20	—	36.1	30.6	32.7	992	90 @ 2,800	100 @ 2,800	86 @ 2,800	—
N67 150 (N 150)	6	6.7	4.09x5.20	—	45	30.8	35.7	1,168	150 @ 2,800	125 @ 2,800	125 @ 2,800	—
N40 250 (N 250)	4	3.9	4.02x4.72	—	39.3	31.6	30.6	1,080	250 @ 2,800	200 @ 2,800	—	—
N67 280 (N 280)*	6	6.7	4.09x5.20	—	39.3	28.0	31.3	1,334	—	170 @ 2,800	—	—
N60 400** (N 400)	6	5.9	4.02x4.72	—	47.2	32.0	31.3	1,334	280 @ 2,800	230 @ 2,800	179 @ 2,500	—
N67 450 (N 450)**	6	6.7	4.09x5.20	—	—	—	—	—	—	246 @ 2,800	—	—
N67 570 (N 570)**	6	6.7	4.09x5.19	—	—	—	—	—	—	200 @ 2,800	—	—
C87 620 (C 620)	6	8.7	4.61x5.31	—	—	—	—	—	—	260 @ 2,800	—	—
C90 650 (C 650)	6	8.7	4.61x5.31	—	48.2	32.0	30.6	1,312	400 @ 3,000	270 @ 3,000	—	—
C87 380 (C 380)	6	8.7	4.53x4.92	—	—	—	—	—	—	330 @ 3,000	—	—
C13 500 (C 500)	6	12.9	5.31x5.91	—	52.0	32.0	30.0	1,312	450 @ 3,000	420 @ 3,000	—	—
C13 825 (C 825)	6	12.9	5.31x5.91	—	—	—	—	—	—	350 @ 3,000	—	—
HPE 110	4	76.16	2.7x3.2	—	42.9	30.7	31.8	1,433	570 @ 3,000	370 @ 3,000	—	—
HPE 110 Jet Drive	4	76.16	2.7x3.2	—	—	—	—	—	—	450 @ 3,000	—	—
HPE 135	4	76.16	2.7x3.2	—	50.6	30.7	37.8	2,072	620 @ 2,530	500 @ 3,000	—	—
HPE 135 Jet Drive	4	76.16	2.7x3.2	—	—	—	—	—	—	500 @ 2,530	—	—
HPE 205	4	119.36	3.3x3.6	—	50.6	30.7	37.8	2,072	650 @ 2,530	500 @ 2,530	—	—
HPEP 205 Stern Drive	4	119.36	3.3x3.6	—	61.2	37.0	37.1	2,072	—	410 @ 2,000	380 @ 2,000	—
HPE 225	4	145.66	3.2x3.6	—	—	—	—	—	—	500 @ 2,530	—	—
HPEP 225 Stern Drive	4	145.66	3.2x3.6	—	—	—	—	—	—	450 @ 2,530	—	—
HPE 250	5	119.36	3.3x3.6	—	71.4	40.1	41.6	2,965	—	520 @ 2,000	500 @ 2,000	—
HPEP 250 Stern Drive	5	119.36	3.3x3.6	—	73.5	41.7	43.9	3,086	825 @ 2,300	600 @ 2,300	—	—
HPE 300	4	182.84	3.8x4.1	—	—	—	—	—	—	650 @ 2,300	—	—
HPEP 300 Stern Drive	4	182.84	3.8x4.1	—	—	—	—	—	—	750 @ 2,300	—	—
HPE 300 Jet Drive	4	182.84	3.8x4.1	—	—	—	—	—	—	—	—	—

\* EPA Tier 3 Compliant

## FNM MARINE DIESEL ENGINES

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 www.nshs.com • E-mail: torsten.schmitt@mshs.com

HPE 110	4	76.16	2.7x3.2	—	22.0	18.1	26.1	392	110 @ 4,000	—	—	—
HPE 110 Jet Drive	4	76.16	2.7x3.2	—	—	—	—	—	110 @ 4,400	—	—	—
HPE 135	4	76.16	2.7x3.2	—	—	—	—	—	110 @ 4,000	—	—	—
HPE 135 Jet Drive	4	76.16	2.7x3.2	—	25.5	23.9	27.8	392	135 @ 4,000	—	—	—
HPE 205	4	119.36	3.3x3.6	—	—	—	—	—	135 @ 4,400	—	—	—
HPEP 205 Stern Drive	4	119.36	3.3x3.6	—	—	—	—	—	—	—	—	—
HPE 225	4	145.66	3.2x3.6	—	29.7	27.2	27.4	639	200 @ 4,100	170 @ 4,100	—	—
HPEP 225 Stern Drive	4	145.66	3.2x3.6	—	—	—	—	—	—	140 @ 4100	—	—
HPE 250	5	119.36	3.3x3.6	—	—	—	—	—	225 @ 4,000	—	—	—
HPEP 250 Stern Drive	5	119.36	3.3x3.6	—	—	—	—	—	—	—	—	—
HPE 300	4	182.84	3.8x4.1	—	35.0	29.0	30.1	639	250 @ 4,200	225 @ 4,200	—	—
HPEP 300 Stern Drive	4	182.84	3.8x4.1	—	—	—	—	—	—	150 @ 4,200	—	—
HPE 300 Jet Drive	4	182.84	3.8x4.1	—	30.7	30.3	29.6	705	295 @ 4,000	250 @ 4,000	130 @ 4,000	—
HPEP 300 Stern Drive	4	182.84	3.8x4.1	—	—	—	—	—	—	180 @ 4,000	—	—
HPE 300 Jet Drive	4	182.84	3.8x4.1	—	—	—	—	—	—	—	—	—

Most Ratings Available EPA Tier 3  
 Manufactured in Italy



Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm

## GE MARINE

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8V228 (Tier 2/IMO)	8	5,344	9.0x10.5	—	156.0	80.0	109.0	30,135	2,250 @ 1050 2,143 @ 1,000 1,928 @ 900	—	—	2,045 @ 1,050 1,948 @ 1,000 1,753 @ 900
12V228 (Tier 2/IMO)	12	8,016	9.0x10.5	—	185.0	84.0	109.0	41,760	3,375 @ 1,050 3,214 @ 1,000 2,893 @ 900	—	—	3,070 @ 1,050 2,922 @ 1,000 2,630 @ 900
16V228 (Tier 2/IMO)	16	10,688	9.0x10.5	—	219.0	87.0	118.0	48,585	4,510 @ 1,050 4,286 @ 1,000 3,857 @ 900	—	—	4,100 @ 1,050 3,896 @ 1,000 3,506 @ 900
12V250 (Tier 2/IMO)	12	11,404	9.8x12.6	—	189.0	97.0	126.0	51,600	4,021 @ 900 4,466 @ 1,000 4,692 @ 1,050	—	—	3,655 @ 900 4,060 @ 1,000 4,265 @ 1,050
(EPA Tier 4i/IMO Tier 3)		11,404	9.8x12.6	—	208.0	106.0	143.0	56,317	4,224 @ 900 4,694 @ 1,000	—	—	—
16V250 (Tier 2/IMO)	16	15,207	9.8x12.6	—	224.0	97.0	129.0	68,000	5,357 @ 900 5,957 @ 1,000 6,254 @ 1,050	—	—	4,870 @ 900 5,415 @ 1,000 5,685 @ 1,050
(Tier 4i/IMO Tier 3)	16	15,207	9.8x12.6	—	247.0	106.0	147.0	70,195	5,632 @ 900 6,249 @ 1,000	—	—	—
6L250MDA (Tier 2/IMO)	6	5,702	9.8x12.6	—	202.0	77.0	116.0	38,182	2,210 @ 900 2,455 @ 1,000 2,578 @ 1,050	—	—	2,009 @ 900 2,232 @ 1,000 2,344 @ 1,050
(EPA Tier 3)	6	5,702	9.8x12.6	—	185.0	79.0	111.0	43,876	2,280 @ 900 2,548 @ 1,000	—	—	—
8L250MDC (Tier 2/IMO)	8	7,603	9.8x12.6	—	235.0	80.0	132.0	45,980	2,947 @ 900 3,274 @ 1,000 3,438 @ 1,050	—	—	2,679 @ 900 2,976 @ 1,000 3,125 @ 1,050
(EPA Tier 3)	8	7,603	9.8x12.6	—	219.0	77.0	115.0	46,885	2,679 @ 900	—	—	—
(EPA Tier 4/ IMO Tier 3)	8	7,603	9.8x12.6	—	219.0	79.0	111.0	51,491	3,017 @ 900 3,353 @ 1,000	—	—	—

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UM6HK1WMAB2	6	476	4.52x4.92	w/o	56.89	38.93	23.25	1,676	—	—	—	300 @ 2,400
UM6HK1WMAB3	6	476	4.52x4.92	w/o	56.89	38.93	23.25	1,676	—	350 @ 2,500	—	—
UM6WG1TCAA1	6	958	5.79x6.06	w/o	74.68	35.5	52.91	3,219	—	—	—	505 @ 1,800
UM6WG1TCAA2	6	958	5.79x6.06	w/o	74.68	35.5	52.91	3,220	—	650 @ 2,100	—	—
UM6WG1WMAB1	6	958	5.79x6.06	w/o	74.68	35.5	52.91	3,220	—	—	—	505 @ 1,800
UM6WG1WMAB2	6	958	5.79x6.06	w/o	74.68	35.5	52.91	3,220	—	600 @ 2,000	—	—
UM6WG1WMAB3	6	958	5.79x6.06	w/o	74.68	35.5	52.91	3,220	—	671 @ 2,100	—	—

### EXPORT MODELS

UM4BG1TCX	4	262	3.94x4.13	w/o	50.51	23.85	37.04	1,160	—	200 @ 2,800	—	—
UM6BG1TCX	6	305	4.13x4.92	w/o	52.87	24.78	38.11	1,521	—	282 @ 2,700	—	—
UM6HE1TCX	6	439	4.33x4.92	w/o	56.89	26.9	41.10	1,598	—	344 @ 2,800	—	—
UM6SD1TCX	6	579	4.63x5.71	w/o	59.75	30.31	46.81	2,283	—	374 @ 2,300	—	—

• None of the above engines are EPA Tier 3 rated; therefore they are for sale outside of the U.S.

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D2866LXE40	6	726	5.4x6.10	—	51.10	33.66	48.98	2,249	—	—	—	258 @ 1,800 379 @ 1,800
D2876LE402	6	781	5.4x6.54	—	51.97	34.53	42.52	2,844	—	400 @ 2,100 560 @ 2,100	—	—
D2876LE403	6	781	5.4x6.54	—	51.97	34.53	42.52	2,557	—	—	—	450 @ 1,800
D2876LE406	6	781	5.4x6.54	—	51.97	34.53	42.52	2,557	—	—	—	381 @ 1,800
D2876LE407	6	781	5.4x6.54	—	51.97	34.53	42.52	2,557	—	—	—	490 @ 1,800
R6-730	6	781	5.04x6.54	—	53.39	35.83	43.19	2,877	730 @ 2,300	—	—	—
R6-800	6	781	5.04x6.54	—	53.39	35.83	43.19	2,877	800 @ 2,300	—	—	—
V8-900	8	891	5.04x5.59	—	46.26	48.82	46.18	3,450	900 @ 2,300	—	—	—
V8-1000	8	989	5.04x6.18	—	48.94	45.39	48.66	3,924	1,000 @ 2,300	—	—	—
V8-1200	8	989	5.04x6.18	—	49.68	45.39	48.11	4,134	1,200 @ 2,300	—	—	—
D2842LE405	12	1,336	5.04x5.59	—	58.70	48.43	47.83	3,946	—	—	—	900 @ 2,100
D2842LE410	12	1,336	5.0x5.59	—	58.74	48.31	47.87	4,101	—	1,019 @ 2,100	—	—
D2842LE412	12	1,336	5.04x5.59	—	58.70	48.43	47.83	3,946	—	—	—	800 @ 1,800
D2842LE419	12	1,338	5.04x5.59	—	58.70	48.43	47.83	3,946	—	—	—	598 @ 1,800
D2868LE424	8	989	5.04x6.18	—	48.90	45.40	40.0	3,968	—	—	—	600 @ 1,800
D2862LE424	12	—	—	—	—	—	—	5,004	—	—	—	900 @ 1,800
D2862LE434	12	1,476	5.04x6.18	—	64.21	45.39	50.75	5,004	—	—	—	749 @ 1,800
D2848LE422	8	891	5.04x5.59	—	46.26	48.82	46.18	3,450	—	750 @ 2,100	—	—
D2868LE422	8	989	5.04x6.18	—	48.90	45.40	40.0	3,968	—	588 @ 2,100	—	—
D2862LE422	12	1,476	5.04x6.18	—	63.54	45.40	40.0	3,968.0	—	1,019 @ 2,100	—	—
D2862LE431	12	1,476	5.04x6.18	—	64.21	45.39	50.75	5,004.44	—	—	—	600 @ 1,800

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w; /w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm
D2868LE425	8	—	—	—	—	—	—	3,968	—	—	800 @ 2,100	—	—	—
D2862LE425	12	—	—	—	—	—	—	—	—	—	1,019 @ 2,100	—	—	—
D2862LE435	12	1,476	5.04x6.18	—	63.54	50.0	50.79	5,004	—	—	1,200 @ 2,100	—	—	—
D2862LE463	12	1,476	5.04x6.18	—	63.54	50.0	50.79	5,004	—	—	1,400 @ 2,100	—	—	—
V12-1650	12	1,476	5.04x6.18	—	65.63	45.28	53.15	5,291	1,650 @ 2,300	—	—	—	—	—
V12-1360	12	1,336	5.04x5.59	—	58.78	51.46	50.0	4,332	1,360 @ 2,300	—	—	—	—	—
V12-1400	12	1,476	5.04x6.18	—	63.54	50.0	50.75	5,004	1,400 @ 2,300	—	—	—	—	—
V12-1550	12	1,476	5.04x6.18	—	64.21	45.39	50.75	5,004	1,550 @ 2,300	—	—	—	—	—
V12-1800	12	1,476	5.04x6.18	—	65.28	45.39	49.80	5,212	1,800 @ 2,300	—	—	—	—	—

\* All engines listed are high-speed, turbocharged and intercooled. \* All Continuous (Light Duty) engines are electronically controlled. All others are mechanical.  
\* All Medium and High Output (Heavy Duty) engines are available outside the U.S. only.

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S6A3-Y2MPTK	6	1,133	5.91x6.88	—	64.4	36	54	4,190	—	—	—	—	483 @ 1,840
S6A3-Y3MPTK**	6	1,133	5.91x6.88	—	64	41	60	4,100	—	—	—	—	543 @ 1,840
S6B3-Y2MPTA	6	891	5.31x6.69	—	60.59	37	52.36	2,889	—	—	—	—	429 @ 2,000
S6-Y3MPTAW**	6	891	5.31x6.69	—	60.6	40	52.4	2,889	—	—	—	—	429 @ 2,000
S6R-Y1MPTA	6	1,496	6.69x7.09	—	71	44	63.5	6,130	764 @ 1,800	650 @ 1,650	590 @ 1,600	—	590 @ 1,600
S6R-Y1MPTK	6	1,496	6.69x7.09	—	71	44	63.5	6,240	811 @ 1,800	697 @ 1,650	630 @ 1,600	—	630 @ 1,600
S6R2-Y1MPTA	6	1,828	6.69x8.66	—	71.3	44	66.7	6,417	757 @ 1,500	657 @ 1,400	597 @ 1,350	—	597 @ 1,350
S6R2-Y1MPTK	6	1,828	6.69x8.66	—	71.3	44	66.8	6,527	818 @ 1,500	710 @ 1,400	643 @ 1,350	—	643 @ 1,350
S6R2-Y3MPTAW**	6	1,828	6.69x8.66	—	70.03	44.40	63.26	6,527	—	—	—	—	803 @ 1,400
S6R-Y2MPTK	6	1,828	6.69x7.09	—	71.3	44	66.7	6,527	—	—	—	—	630 @ 1,600
S6R-Y3MPTAW**	6	1,496	6.69x7.09	—	70.03	44.4	63.2	6,240	—	—	—	—	630 @ 1,600
S12A2-Y1MPTA	12	2,071	5.91x6.30	—	78.8	56.7	63.7	7,453	1,040 @ 2,100	940 @ 2,000	850 @ 1,940	—	850 @ 1,940
S12A2-Y1MPTK	12	2,071	5.91x6.30	—	90	56.5	63.7	8,203	1,150 @ 2,100	1,040 @ 2,000	940 @ 1,940	—	940 @ 1,940
S12A2-Y2MPTK	12	2,071	5.91x6.30	—	90	56.5	63.7	8,203	—	—	—	—	940 @ 1,940
S12R-Y1MPTA	12	2,992	6.69x7.09	—	93.5	59.5	68.6	11,532	1,528 @ 1,800	1,300 @ 1,650	1,180 @ 1,600	—	1,180 @ 1,600
S12R-Y1MPTK	12	2,992	6.69x7.09	—	93.5	59.5	68.6	11,731	1,622 @ 1,800	1,394 @ 1,650	1,260 @ 1,600	—	1,260 @ 1,600
S12R-Y2MPTK	12	2,992	6.69x7.09	—	93.5	59.5	68.6	11,731	—	—	—	—	1,260 @ 1,600
S12R-Y3MPTAW**	12	2,992	6.69x7.09	—	116	56.5	80	11,731	—	—	—	—	1,100 @ 1,600
S12R-Y3MPTAW**	12	2,992	6.69x7.08	—	116	116	80	11,731	—	—	—	—	1,260 @ 1,600
S16R-Y1MPTA	16	3,989	6.69x7.09	—	115	59	77	14,685	2,038 @ 1,800	1,729 @ 1,650	1,568 @ 1,600	—	1,568 @ 1,600
S16R-Y1MPTK	16	3,989	6.69x7.09	—	115	59	77	14,950	2,158 @ 1,800	1,850 @ 1,650	1,676 @ 1,600	—	1,676 @ 1,600
S16R-Y3MPTAW**	16	3,989	6.69x7.09	—	115.9	59.8	27.17	14,950	—	—	—	—	1,675 @ 1,600

\* Engines listed under HIGH OUTPUT are actually LIGHT DUTY. \*\* Tier III Marine Engines.

Engines that meet Tier 3 EPA standards are the ones that have the Y3 in the model number. The other models are produced, but not available in the U.S., unless they are REPLACEMENT engines, but they are being built for other Mitsubishi markets.  
The Mitsubishi Tier 3 product is all mechanical.

## MTU

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## MTU — COMMERCIAL MARINE OPERATIONS

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Series	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear	Dimensions (in.)			Weight (lbs.)	Intermittent Maximum		Intermittent	Continuous
					L	W	H		hp	rpm		
Series 60**	6	855	5.24x6.61	—	72.4	40.7	46.0	3,525	—	—	—	350 @ 1,800
									—	—	—	375 @ 1,800
									—	—	—	400 @ 1,800
									—	—	—	425 @ 1,800
									—	—	—	450 @ 1,800
									—	—	—	475 @ 1,800
S60**	6	855	5.24x6.61	—	72.25	41.1	46.0	3,525	475 @ 2,100	—	—	—
									500 @ 1,800	—	—	—
									535 @ 2,100	—	—	—
S60**	6	—	—	—	80.0	39.0	45.0	3,600	600 @ 2,100	—	—	—
									625 @ 2,300	—	—	—
									740 @ 2,300	—	—	—
									800 @ 2,300	—	—	—
									825 @ 2,300	—	—	—
Series 2000**	8	973	5.1x5.9	—	55.0	45.0	47.0	—	—	—	—	535 @ 1,800
8V2000M61	8	1,093	5.3x6.1	—	53.9	44.5	47.2	4,365	—	965 @ 2,250	—	—
8V2000 M72	8	1,093	5.3x6.1	—	53.9	44.5	47.2	4,365	1,360 @ 2,450	—	—	—
8V2000 M84	8	1,093	5.3x6.1	—	53.9	44.5	47.2	4,365	1,360 @ 2,450	—	—	—
10V2000 M84	10	1,361	5.3x6.1	—	63.0	44.5	48.7	4,938	—	—	—	—
10V2000 M72	10	1,361	5.3x6.1	—	63.0	44.5	48.7	4,938	—	1,205 @ 2,250	—	—
12V2000 M61	12	1,458	5.1x5.9	—	74.4	56.1	50.8	5,985	—	—	—	805 @ 1,800
12V2000 M72	12	1,361	5.3x6.1	—	74.8	50.9	54.2	6,195	—	1,450 @ 2,250	—	—
12V2000 M84	12	1,361	5.3x6.1	—	74.8	50.9	54.2	6,195	1,635 @ 2,450	—	—	—
16V2000 M61	16	1,944	5.1x5.9	—	88.8	55.0	50.8	7,121	—	—	—	1,070 @ 1,800
16V2000 M70	16	1,944	5.1x5.9	—	88.8	55.0	50.8	7,121	1,800 @ 2,300	1,410 @ 2,100	—	—
16V2000 M72	16	2,179	5.3x6.1	—	91.1	50.9	55.0	7,452	—	1,930 @ 2,250	—	—
16V2000 M84	16	2,179	5.3x6.1	—	91.1	50.9	55.0	7,452	2,180 @ 2,450	—	—	—
Series 4000	8	2,331	6.7x8.3	—	80.3	63.6	81.1	12,522	—	—	—	1,000 @ 1,600
8V4000 M54	8	2,331	6.7x8.3	—	80.3	63.6	81.1	12,522	—	—	—	1,200 @ 1,800
8V4000 M245	8	2,331	6.7x8.3	—	80.3	63.6	86.4	12,522	—	—	—	895 (kW) @ 1,800
(3a 60Hz)												
12V4000 M54	12	3,491	6.7x8.3	—	99.2	72.8	81.7	17,086	—	—	—	1,600 @ 1,800
12V4000 M64	12	3,491	6.7x8.3	—	99.2	72.8	81.7	17,086	—	—	—	1,875 @ 1,800
12V4000 245	12	3,491	6.7x8.3	—	99.2	72.8	86.0	17,086	—	—	—	1,195 (kW) @ 1,800

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm
(3A 60Hz) 12V4000 345	12	3,491	6.7x8.3	—	99.2	72.8	86.0	17,086	—	—	—	—	1,399 (kW) @ 1,800	
(38 60Hz) 16V4000 M54	16	4,656	6.7x8.3	—	117.7	72.8	81.5	19,489	—	—	—	—	2,260 @ 1,800	
16V4000 M64	16	4,656	6.7x8.3	—	117.7	72.8	81.5	19,489	—	—	—	—	2,680 @ 1,800	
16V4000 245	16	4,656	6.7x8.3	—	117.7	72.8	85.8	19,489	—	—	—	—	1,685 (kW) @ 1,800	
(3A 60 Hz) 16V4000 345	16	4,656	6.7x8.3	—	117.7	72.8	85.8	19,489	—	—	—	—	1,999 (kW) @ 1,800	
(38 60Hz)														

\*\*\* Available as EPA T2 and IMO T2 only

Series 4000 ratings — please consult your selling distributor for additional ratings not listed above

Only EPA Tier 3 certified engines can be sold for use in the U.S. as defined by the EPA.

Dimensions listed here should NOT be used for installation purposes. Consult installation drawings.

All weights listed are dry.

Rating Conditions:

Series 60: j1128, all other series: ISO 8665

Rating Definitions:

• Continuous 1A (All Series): Engines for vessels with unrestricted continuous operation. Average load factor: 70%-90%. Typical operating time: unrestricted.

Typical applications: workboats, ferries, government vessels, tugs, barges and large sailing yachts.

• Intermittent-Maximum (Series 60): Engines for fast vessels with midrange load factors. Average load factor <60%. Typical operation time 3,000 hrs/yr.

Typical applications: government vessels, season fishing vessels.

• Marine Auxiliary Continuous Power 3A: For onboard power generation and diesel electric drives in unrestricted continuous operation.

• Marine Auxiliary Prime Power 3B: For onboard power generation and diesel electric drives in continuous operation with variable load.

\* Application Rating Definitions are approximate and consistent for comparative purposes only.

\* All engines listed above are either Tier 2 or Tier 3 compliant.

\* See dealer for IMO compliance and other ratings.

## NORTHERN LIGHTS/LUGGER

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4420 14th Ave. N.W. • Seattle, WA 98107

www.northern-lights.com • E-mail: info@northern-lights.com

L844D	4	121	3.3x3.5	w/o	26.9	19.8	31.1	587	40 @ 2,800	30 @ 2,400	—
L1064TI	4	276	4.19x5.0	w/o	40.1	32.1	35.9	1,140	—	—	100 @ 2,500
L1064A	4	276	4.19x5.0	w/o	45.0	28.6	36.4	1,250	140 @ 2,400	125 @ 2,200	115 @ 2,000
L1066T	6	414	4.19x5.0	w/o	54.9	27.3	36.2	1,982	170 @ 2,500	165 @ 2,400	135 @ 2,200
L1066A	6	414	4.19x5.0	w/o	55.6	28.8	37.3	2,155	250 @ 2,400	200 @ 2,200	185 @ 2,200
L6125H	6	674	4.92x5.91	—	70.0	33.0	45.0	2,867	470 @ 2,300	440 @ 2,200	350 @ 1,800
L1066H	6	414	4.19x5.0	w/o	56.6	28.6	37.3	2,162	275 @ 2,400	250 @ 2,200	—
L1276A2	6	766	5.0x6.5	w/o	69.9	41.3	46.0	3,210	525 @ 2,100	425 @ 2,100	340 @ 2,100

• Lugger is not currently offering engines that are EPA Tier 3 compliant.

## SCANIA USA INC.

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121 Interpark Blvd. • Suite 1002 • San Antonio, TX 78216

www.scaniausa.com • E-mail: contact@scaniausa.com

DI13 80M	6	—	5.1x6.3	—	59.1	38.2	46.2	2,624	—	—	250 @ 1,800
											220 @ 1,800
											300 @ 1,800
											339 @ 1,800
											350 @ 1,800
											400 @ 1,800
DI13 81M	6	—	5.1x6.3	—	59.1	38.2	46.2	2,624	—	—	220 @ 1,800
											450 @ 1,800
											500 @ 1,800
DI13 82M	6	—	5.1x6.3	—	59.1	38.2	46.2	2,624	—	450 @ 2,100	—
										500 @ 2,100	—
DI13 83M	6	—	5.1x6.3	—	59.1	38.2	46.2	2,624	—	550 @ 2,100	—
										600 @ 2,100	—
DI13 85M	6	—	5.1x6.3	—	59.1	38.2	46.2	2,624	650 @ 2,300	—	—
DI13 86M	6	—	5.1x6.3	—	59.1	38.2	46.2	2,624	600 @ 2,300	—	—
									675 @ 2,300	—	—
DI13 70M	6	—	5.1x6.3	—	59.4	38.2	42.1	2,624	—	—	450 @ 1,800
											400 @ 1,800
											500 @ 1,800
											550 @ 1,800
DI13 71M	6	—	5.1x6.3	—	59.4	38.2	42.1	2,624	—	—	400 @ 1,800
											450 @ 1,800
											500 @ 1,800
DI13 72M	6	—	5.1x6.3	—	59.1	38.2	42.1	2,624	650 @ 2,300	600 @ 2,300	—
DI13 73M	6	—	5.1x6.3	—	59.1	38.1	42.1	2,624	—	450 @ 2,100	—
										500 @ 2,100	—
										550 @ 2,100	—
DI13 77M	6	—	5.1x6.3	—	59.1	38.2	42.1	2,624	700 @ 2,300	—	—
									750 @ 2,300	—	—
DI13 78M	6	—	5.1x6.3	—	59.4	38.2	42.1	2,624	—	450 @ 2,100	—
										500 @ 2,100	—
										550 @ 2,100	—
DI16 72M	8	—	5.1x6.06	—	61.1	49.2	47.8	3,682	800 @ 2,300	650 @ 2,100	—
									850 @ 2,300	700 @ 2,100	—
									900 @ 2,300	750 @ 2,100	—
										800 @ 2,100	—
DI16 70M	8	—	5.1x6.06	—	61.1	49.2	47.8	3,682	—	—	550 @ 1,800
											625 @ 1,800
											700 @ 1,800
											750 @ 1,800
DI16 71M	8	—	5.1x6.06	—	61.1	49.2	47.8	3,682	—	—	550 @ 1,800

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm
DI16 77M*	8	—	5.11x6.06	—	61.1	49.2	47.8	3,682	900 @ 2,300	—	—	625 @ 1,800	—	
DI16 80M	8	—	5.1x6.06	—	61.1	49.2	47.8	3,682	*1,000 @ 2,300	—	—	301 @ 1,800	—	
									—	—	—	350 @ 1,800	—	
									—	—	—	400 @ 1,800	—	
									—	—	—	450 @ 1,800	—	
									—	—	—	550 @ 1,800	—	
									—	—	—	625 @ 1,800	—	
DI16 81M	8	—	5.1x6.06	—	61.1	49.2	47.8	3,682	—	650 @ 2,100	—	—	—	
DI16 82M	8	—	5.1x6.06	—	61.1	49.2	47.8	3,682	—	700 @ 1,800	—	—	—	
DI16 83M	8	—	5.1x6.06	—	61.1	49.2	47.8	3,682	—	800 @ 2,100	—	—	—	
									800 @ 2,300	—	—	—	—	
									850 @ 2,300	—	—	—	—	
									900 @ 2,300	—	—	—	—	

\* Optimized for waterjet applications only

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SE84K32*	4	2.1L	—	—	—	—	—	536	80 @ 3,200	—	—	—	—
SE94K33*	4	2.1L	—	—	—	—	—	536	90 @ 3,300	—	—	—	—
SE114K33	4	2.1L	—	—	—	—	—	562	110 @ 3,300	—	—	—	—
SE144K33	4	2.1L	—	—	—	—	—	569	144 @ 3,800	—	—	—	—
SE164M40	4	2.1L	—	—	—	—	—	568	163 @ 4,000	—	—	—	—
SE174V40	4	2.1L	—	—	—	—	—	568	170 @ 4,000	—	—	—	—
SE126E25	6	3.2L	—	—	—	—	—	750	120 @ 2,500	—	—	—	—
SE156E26	6	3.2L	—	—	—	—	—	750	150 @ 2,600	—	—	—	—
SE196E35	6	3.2L	—	—	—	—	—	750	190 @ 3,500	—	—	—	—
SE236E40	6	3.2L	—	—	—	—	—	750	231 @ 4,000	—	—	—	—
SE236S36	6	3.2L	—	—	—	—	—	750	231 @ 3,600	—	—	—	—
SE266E40	6	3.2L	—	—	—	—	—	750	258 @ 4,000	—	—	—	—
SE266S36	6	3.2L	—	—	—	—	—	750	258 @ 3,600	—	—	—	—
SE286E40	6	3.2L	—	—	—	—	—	750	279 @ 4,000	—	—	—	—
SE306J38	6	3.2L	—	—	—	—	—	750	292 @ 3,800	—	—	—	—

\* Tier 2 only, not for use in the U.S.

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Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm

## VOLVO PENTA

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D4-225/DP***	4	226	4.06x4.33	—	30.9	29.6	30.7	1,420	225 @ 3,500	—	—	—	—
D4-180***	4	226	4.06x4.33	—	30.9	29.6	30.7	1,204	—	180 @ 2,800	—	—	—
D6-300/DP***	6	336	4.06x4.33	—	40.1	32.2	30.7	1,653	300 @ 3,500	—	—	—	—
D6-330/DP***	6	336	4.06x4.33	—	40.1	32.2	30.7	1,653	330 @ 3,500	—	—	—	—
D4-225***	4	226	4.06x4.33	w	30.9	29.6	30.7	1,204	225 @ 3,500	—	—	—	—
D6-330***	6	336	4.06x4.33	—	40.1	32.2	30.7	1,446	330 @ 3,500	—	—	—	—
D9 MH**	6	571	4.72x5.43	—	53.7	38.8	44.6	2,535	—	—	—	300 @ 1,800	—
												355 @ 1,800	—
												355 @ 2,200	—
D9 MH**	6	571	4.72x5.43	—	53.7	33.8	44.6	2,370	—	425 @ 2,200	—	—	—
D9 MC**	6	571	4.72x5.43	—	51.5	33.8	39.7	2,370	425 @ 2,200	—	—	—	—
												500 @ 2,600	—
D6-370***	6	336	4.06x4.33	w	40.1	32.2	30.7	1,493	370 @ 3,500	—	—	—	—
D6-370/DP***	6	336	4.06x4.33	—	40.1	32.2	30.7	1,698	370 @ 3,500	—	—	—	—
D6-370 SOLAS***	6	336	4.06x4.33	—	50.8	32.2	30.7	1,279	370 @ 3,500	—	—	—	—
D6-370/DP***	6	336	4.06x4.33	—	50.8	32.2	30.7	1,698	370 @ 3,500	—	—	—	—
D6300***	6	336	4.06x4.33	w	40.1	32.2	30.7	1,446	300 @ 3,500	—	—	—	—
D16 MH***	6	984	5.67x6.50	—	60.9	44.0	51.3	3,858	—	750 @ 1,900	—	600 @ 1,800	650 @ 1,800
D4-225 SOLAS***	4	226	4.06x4.33	—	41.6	29.6	30.7	1,063	225 @ 3,500	—	—	—	—
D4-225/DP***	4	226	4.06x4.33	—	41.6	29.6	30.7	1,411	225 @ 3,500	—	—	—	—
SOLAS													
D6-300 SOLAS***	6	336	4.06x4.33	—	50.8	32.2	30.7	1,279	300 @ 3,500	—	—	—	—
D6-300/DP***	6	336	4.06x4.33	—	50.8	32.2	30.7	1,645	300 @ 3,500	—	—	—	—
SOLAS													
D6-330 SOLAS***	6	336	4.06x4.33	—	50.8	32.2	30.7	1,279	330 @ 3,500	—	—	—	—
D6-330/DP***	6	336	4.06x4.33	—	50.8	32.2	30.7	1,645	330 @ 3,500	—	—	—	—
SOLAS													
D6-400/DP***	6	336	4.06x4.33	—	40.1	32.2	30.7	1,731	400 @ 3,500	—	—	—	—
D6-435 WJ***	6	336	4.06x4.33	—	40.1	32.2	30.7	1,290	435 @ 3,500	—	—	—	—
D5A TA**	4	290	4.25x5.12	—	43.5	30.0	40.0	1,157	—	140 @ 1,900	121 @ 1,900	—	—
											160 @ 2,300	139 @ 2,300	—
D7A TA**	6	436	4.25x5.12	—	55.3	33.5	40.0	1,521	—	208 @ 1,900	177 @ 1,900	—	—
											237 @ 2,300	201 @ 2,300	—
D7C TA**	6	436	4.25x5.12	—	55.3	33.5	40.0	1,521	—	230 @ 1,900	199 @ 1,900	—	—
											265 @ 2,300	226 @ 2,300	—
											248 @ 2,100	—	—
D11 MC***	6	661	4.84x5.98	—	51.5	37.1	40.5	2,524	625 @ 2,400	510 @ 2,250	—	—	—
D13 MH***	6	779.7	5.16x6.22	—	58.0	42.0	50.0	3,197	—	550 @ 1,800	400 @ 1,800	—	—
											450 @ 1,800	—	—
								500 @ 1,800	—	—	—	—	—
D13 MH***	6	779.7	5.16x6.22	—	58.0	42.0	50.0	3,197	—	550 @ 1,800	—	—	—
D13 MC***	6	779.7	5.16x6.22	—	58.0	41.8	41.5	3,197	—	600 @ 1,800	—	—	—
D13 MC***	6	779.7	5.16x6.22	—	70.7	42.9	41.5	3,439	800 @ 2,300	700 @ 2,300	—	—	—
IPS 400 MC***	6	336	4.05x4.33	—	—	—	—	1,903*	300 @ 3,500	—	—	—	—
IPS 450 MC***	6	336	4.05x4.33	—	—	—	—	1,903*	330 @ 3,500	—	—	—	—
IPS 650 MC***	6	661	4.84x5.98	—	—	—	—	3,968*	—	510 @ 2,200	—	—	—
IPS 800 MC***	6	661	4.84x5.98	—	—	—	—	3,968*	650 @ 2,400	—	—	—	—
IPS 900 MC***	6	779.9	5.16x6.22	—	—	—	—	5,220*	—	700 @ 2,250	—	—	—
IPS 1,050 MC***	6	779.9	5.16x6.22	—	—	—	—	5,220*	800 @ 2,300	—	—	—	—

\* Package Weight - Pair/ \*\* Tier 2/ \*\*\* Tier 3

## WÄRTSILÄ NORTH AMERICA INC.

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20 4L20	4	2,147	7.9x11.0	—	99	58	82	15,873	—	—	—	1,072 @ 1,000	—
20 6L20	6	3,221	7.9x11.0	—	122	62	78	20,502	—	—	—	1,609 @ 1,000	—
20 8L20	8	4,294	7.9x11.0	—	150	67	82	24,251	—	—	—	2,145 @ 1,000	—
20 9L20	9	4,831	7.9x11.0	—	160	67	82	25,574	—	—	—	2,414 @ 1,000	—
26 12V26	12	12,441	10.2x12.6	—	206	97	129	64,288	—	—	—	5,545 @ 1,000	—
26 6L26	6	6,220	10.2x12.6	—	166	71	111	37,980	—	—	—	2,735 @ 1,000	—
26 8L26	8	8,294	10.2x12.6	—	207	78	112	48,061	—	—	—	3,647 @ 1,000	—
26 9L26	9	9,330	10.2x12.6	—	222	78	112	52,192	—	—	—	4,160 @ 1,000	—
26 16V26	16	16,587	10.2x12.6	—	245	98	134	80,864	—	—	—	7,395 @ 1,000	—
32 6L32	6	11,778	12.6x15.7	—	201	87	146	79,520	—	—	—	4,080 @ 750	—
32 7L32	7	13,741	12.6x15.7	—	220	87	160	91,840	—	—	—	4,760 @ 750	—
32 8L32	8	15,704	12.6x15.7	—	252	87	156	—	—	—	—	5,440 @ 750	—
32 9L32	9	17,667	12.6x15.7	—	271	87	156	—	—	—	—	6,120 @ 750	—
38 6L38	6	19,723	15.0x18.7	—	258	87	156	—	—	—	—	5,915 @ 600	—
32 12V32	12	23,556	12.6x15.7	—	252	113	169	—	—	—	—	8,160 @ 750	—
32 16V32	16	31,408	12.6x15.7	—	309	130	175	—	—	—	—	10,870 @ 750	—
32 18V32	18	35,334	12.6x15.7	—	331	130	175	—	—	—	—	12,240 @ 750	—
38 8L38	8	26,297	15.0x18.7	—	327	96	154	—	—	—	—	7,885 @ 600	—
38 9L38	9	29,585	15.0x18.7	—	353	96	154	—	—	—	—	8,870 @ 600	—
38 12V38	12	39,446	15.0x18.7	—	319	119	173	—	—	—	—	11,830 @ 600	—
38 16V38	16	52,595	15.0x18.7	—	377	119	180	—	—	—	—	15,770 @ 600	—
46 12V46	12	70,581	18.1x22.8	—	401	151	203	—	—	—	—	18,845 @ 514	—
46 16V46	16	94,108	18.1x22.8	—	496	179	203	—	—	—	—	25,125 @ 514	—
64 6L64	6	106,002	25.2x35.4	—	412	164	246	—	—	—	—	17,540 @ 333	—

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm
64 7L64	7	123,669	25.2x35.5	—	455	164	250	—	—	—	—	20,460 @ 333		
64 8L64	8	141,336	25.2x35.6	—	498	164	250	—	—	—	—	23,390 @ 333		
46F 6L46F	6	—	—	—	—	—	—	213,400	—	9,648 @ 600	—	—		
46F 7L46F	7	—	—	—	—	—	—	248,600	—	11,256 @ 600	—	—		
46F 8L46F	8	—	—	—	—	—	—	272,800	—	12,867 @ 600	—	—		
46F 9L46F	9	—	—	—	—	—	—	308,000	—	14,472 @ 600	—	—		
46F 12V46F	12	—	—	—	—	—	—	380,600	—	19,296 @ 600	—	—		
46F 14V46F	14	—	—	—	—	—	—	475,200	—	22,512 @ 600	—	—		
46F 16V46F	16	—	—	—	—	—	—	512,600	—	25,728 @ 600	—	—		
20DF 6L20DF	6	—	—	—	—	—	—	20,240	—	1,415 @ 1,200	—	—		
20DF 8L20DF	8	—	—	—	—	—	—	24,640	—	1,887 @ 1,200	—	—		
20DF 9L20DF	9	—	—	—	—	—	—	25,960	—	2,122 @ 1,200	—	—		
34DF 6L34DF	6	—	—	—	—	—	—	74,800	—	4,020 @ 750	—	—		
34DF 9L34DF	9	—	—	—	—	—	—	103,400	—	6,030 @ 750	—	—		
34DF 12V34DF	12	—	—	—	—	—	—	129,800	—	8,040 @ 750	—	—		
34DF 16V34DF	16	—	—	—	—	—	—	165,000	—	10,720 @ 750	—	—		
50DF 6L50DF	6	—	—	—	—	—	—	211,200	—	7,638 @ 500	—	—		
										7,839 @ 514	—	—		
50DF 8L50DF	8	—	—	—	—	—	—	281,600	—	10,184 @ 500	—	—		
										10,452 @ 514	—	—		
50DF 9L50DF	9	—	—	—	—	—	—	325,600	—	11,457 @ 500	—	—		
										11,758 @ 514	—	—		
50DF 12V50DF	12	—	—	—	—	—	—	385,000	—	15,276 @ 500	—	—		
										15,678 @ 514	—	—		
50DF 16V50DF	16	—	—	—	—	—	—	484,000	—	20,368 @ 500	—	—		
										20,904 @ 514	—	—		
50DF 18V50DF	18	—	—	—	—	—	—	528,000	—	22,781 @ 500	—	—		
										23,517 @ 514	—	—		

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12D TWO	2	39	2.99x2.76	w	25.6	20.0	20.4	225	12 @ 3,000	—	—
30C THREE	3	58	2.99x2.76	w	29.5	20	20.3	274	25 @ 3,600	—	—
35E THREE	3	80	3.07x3.62	w	30.6	21.3	22.6	386	28 @ 3,000	—	—
44C FOUR	4	107	3.07x3.62	w	34.0	21.3	23.0	416	38 @ 3,000	—	—
55D FOUR	4	133	3.35x3.78	w	35.4	21.3	24.0	448	48 @ 2,600	—	—
65b FOUR	4	264	3.86x4.33	w	40.9	25.4	30.2	730	66 @ 2,600	—	—

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4BY2-150*	4	122	—	w/o	—	—	—	551	150 @ 4,000	—	—	
4BY2-180*	4	122	—	w/o	—	—	—	551	180 @ 4,000	—	—	
6BY2-220*	6	183	—	w/o	—	—	—	683	220 @ 4,000	—	—	
6BY2-260*	6	183	—	w/o	—	—	—	683	260 @ 4,000	—	—	
6LPA-STP*	6	254	—	w/o	—	—	—	899	315 @ 3,800	—	—	
6LY3A-ETP	6	354	—	w/o	—	—	—	1,411	480 @ 3,800	—	—	
6LY3A-STP	6	354	—	w/o	—	—	—	1,411	440 @ 3,800	—	—	
6LY3A-UTP	6	354	—	w/o	—	—	—	1,411	380 @ 3,300	—	—	
6CX530	6	452	—	w/o	—	—	—	1,845	530 @ 2,900	—	—	
8LV370*	6	272	—	w/o	—	—	—	960	370 @ 3,800	—	—	
6SY720	6	714	—	w/o	—	—	—	2,536	720 @ 2,300	—	—	
8SY900	8	952	—	w/o	—	—	—	3,650	900 @ 2,300	—	—	
		LITERS	MILLIMETERS		MILLIMETERS							
6CH-HTE3***	6	6.494	105x125	w/o	1,575	736	1,096	895	170 @ 2,550	—	—	
									190 @ 2,600	—	—	
6CH-WUTE**	6	6.494	105x125	w/o	1,575	736	1,096	940	255 @ 2,550	—	—	
									280 @ 2,600	—	—	
6CXBM-GT	6	7.413	110x130	w/o	1,451	901	979	856	360 @ 2,400	—	—	
									400 @ 2,500	—	—	
									464 @ 2,700	—	—	
									509 @ 2,700	—	—	
		LITERS	MILLIMETERS		MILLIMETERS							
6HA2M-WHT**	6	13.14	130x165	w/o	1,585	1,016	1,260	1,455	350 @ 1,950	—	—	
6HYM-WET**	6	13.733	132.9x165	w/o	1,556	1,014	1,133	1,385	500 @ 1,950	—	—	
									600 @ 2,100	—	—	
									650 @ 2,150	—	—	
									700 @ 2,200	—	—	
6AYM-WST**	6	20.733	155x180	w/o	2,000	1,305	1,331	2,365	659 @ 1,900	—	—	
6AYM-WET**	6	20.379	155x180	w/o	2,000	1,305	1,331	2,365	755 @ 1,840	—	—	
6AYM-WGT**	6	20.379	155x180	w/o	2,000	1,305	1,331	2,365	911 @ 1,938	—	—	
12AYM-WST	12	40.76	155x180	w/o	2,615.4	1,636	1,708	4,720	1,200 @ 1,850	—	—	
									1,400 @ 1,900	—	—	
12AYM-WET	12	40.76	155x180	w/o	2,615.4	1,636	1,708	4,720	1,550 @ 1,840	—	—	
									1,659 @ 1,900	—	—	
12AYM-WGT	12	40.76	155x180	w/o	2,615.4	1,636	1,708	4,720	1,822 @ 1,940	—	—	

\* Available with Yanmar stern drive.

\*\* IMO Tier 2 certified (not EPA certified) and available with Yanmar transmission.