



First Workboat with MAN EPA Tier 3 commercially rated Engine Launched

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The "Ava Jane", the first workboat with a MAN EPA Tier 3 commercially rated engine, was launched in Alaska on April 18. The German engine maker MAN adapted the internal elements of its entire engine range without increasing consumption at full load, all in advance of the introduction of the new exhaust regulation.

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Capable of traveling at more than 25 knots, as of April 18 2014, the "Ava Jane" will be sailing on the sea of the Bristol Bay area of Alaska to fish for salmon. The trawler is equipped with a MAN straight six cylinder engine able to produce 537 kW (730 hp). The fishing boat will be especially environmentally-friendly on the high seas as, since January 2014, all MAN engines meet the US exhaust norm for watercraft - EPA Tier 3. This new and/or current directive requires an additional 20% reduction in nitrous oxides (NOx) and a further 40% reduction in particle emissions compared to EPA Tier 2.

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Compact and Efficient Despite EPA Tier 3

At its International Engine Competence Center in Nuremberg (Germany), MAN adapted all 16 performance levels of its in-line six cylinder engines and the newest generation of V8 and V12 engines before the emissions' deadline passed. Neither an after exhaust recirculation nor an exhaust after treatment system had to be used. Because of the internal optimization of the engine there was no need to add on any additional emission reducing components. Therefore the MAN engines compact size was not affected. "Our claim of achieving the highest levels of efficiency is also fulfilled with our EPA Tier 3 engines. This is why with our MAN D2862, for example, we have set new benchmarks for consumption in the field of heavy duty applications – and thus also in terms of total costs of ownership", says Reiner Roessner, Head of Sales MAN Engines. George Dauber, an active fisherman for over 35 years and also involved in the "Ava Jane" joint project together with the Mavrik Marine Shipyard, can't speak highly enough of the MAN R6-730: "For me, there is no engine to match it – none that is so quiet on deck and at the pilot's station, nor which keeps its harmonious sound so consistently across the entire speed range. For me, the Ava Jane with its MAN engine is the perfectly comfortable working environment."



Broad Engine Range for Workboats – Even for EPA Tier 3

MAN offers a broad range of high-speed four-stroke diesel engines for use in commercial marine applications. For heavy duty applications – with unlimited operating hours and a full-load operation share of up to 100% – including for tugs and other workboats, MAN offers an output range from 190 to 735 kW (258 to 1,000 hp). For medium duty applications (up to 4,000 hours per year at a full-load operation share of up to 50%), including for ferries, fishing boats, and passenger boats, the output range runs from 294 to 1,029 kW (400 to 1,400 hp). For light duty applications (up to 1,000 hours per year at a full-load operation share of up to 20%), including for escorts, ambulances, and police boats, MAN's engine range offers efficient 6, 8, and 12-cylinder engines providing 537 to 1,324 kW (730 to 1,800 hp).

MAN marine engines are noted for their powerful acceleration with extremely low consumption levels. Their key advantages include the excellent power capacity utilization and compact installation dimensions. The engines are delivered ready for installation and are optimally designed for the given application and usage conditions. As regards after installation, MAN offers inspection and acceptance services and even full commissioning of the engine. All engines comply with internationally applicable exhaust regulations.

Technical Details of the "Ava Jane"

Ship name	Ava Jane
Ship type	Fishing Boat (Gillnetter)
Shipyard	Mavrik Marine
Launch	04/18/2014
Length	32 ft. (9.77 m)
Beam	14' 4" (4.37 m)
Draft	35" (0.89 m)
Engine	MAN R6-730: in-line six cylinder; 537 kW (730 hp) at 2,300 rpm; EPA Tier 3; 1,305 kg
Speed	25+ knots
Gearbox	ZF 360 A; ratio: 2.192 : 1, with live "C" pad to P.T.O.
Propeller	4 blades; 30" (0.76 m) diameter
Weight	Approx. 24,000 lbs (10,910 kg)