

## **Marine Diesel Engine Fishing Vessel**

### ***The Challenge***

The owner of a Pacific Northwest fishing vessel was in need of a crankcase ventilation system for his John Deere 6068 TFM76 engine. The current system was not effectively capturing the crankcase blow by oil mist. This was an issue as it created a hazard in the engine room.

### ***The Solution***

Solberg offered its ACV Series Advanced Crankcase Ventilation System as a solution to both regulate engine crankcase pressure and remove harmful oil mist emissions that could damage the turbo or bypass their existing unit and vent into the engine room. Solberg also replaced the original engine intake air filter to complete the crankcase ventilation system upgrade.

### ***Results***

With the ACV retrofit, the owner was able to capture the crankcase blow by oil mist. The drain line was routed back to the engine sump, below the low oil level, promoting proper draining. This allows for the reclaiming of what otherwise would be lost oil. The engine room was made much safer as the oil mist is no longer accumulating on the floors and equipment.



Rev: 6068 TFM76-US1905K

## Solberg Products Provided

ACV-1-5-100L Advanced Crankcase Ventilation system

FT-235-400T Engine Intake Air Filter

Drain kits with waste oil console

## The Product

The ACV is designed to protect your engine's turbo, coolers, and inlet air filters as well as help ensure environmental compliance while keeping engine rooms clean, safe & free of oil mist. The series comes standard with industry leading automated vacuum control technology to regulate crankcase pressure and prevent seal leakage. The replaceable filter element contains a proprietary media pack offering exceptional efficiency levels with an extremely long life, allowing operators up to one year before an element change is required.

## ACV Design Features

- Eliminates visible emissions (99%+ efficient at 0.3 um)
- High performance coalescing elements offer long life
- Flow ranges from 2 - 40 CFM (3 - 68 m<sup>3</sup>/hr) for single units
- Integrated vacuum control valve controls precise range of vacuum
- Diaphragm vacuum regulation valve design, no springs; No manual vacuum adjustment required
- Drain port for oil recovery
- Universal mounting bracket
- Available with installation kits
- Optional atmospheric bypass



PART NUMBER	ACV-1-5-100L
INLET/OUTLET	1" NPSC
DRAIN	0.5" NPSC
GAUGE TAP	.25" NPT
FLOW RATE	5 CFM   8 m <sup>3</sup> /hr
HEIGHT	16.6"   421 mm
LENGTH	4.5"   114 mm
DEPTH	9.1"   230 mm

