

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER Q-15-002

Small Off-Road Engine Evaporative Emission System Components

Flambeau Inc.  
HMW HDPE BLOW MOLDED RED  
Fuel Tanks

WHEREAS, pursuant to California Health and Safety Code, sections 39600, 39601, and 43013, the California Air Resources Board (ARB) has established a certification process for evaporative emission system components designed to control gasoline emissions from small off-road engines (SORE), as described in California Code of Regulations, title 13, section 2767.1;

WHEREAS, pursuant to California Health and Safety Code, section 43013, ARB has established criteria and test procedures for determining the compliance of evaporative emission system components with the design requirements in Cal. Code Regs., title 13, section 2754;

WHEREAS, pursuant to Cal. Code Regs., title 13, section 2767.1, ARB Executive Officer may issue an executive order (EO) if he determines that SORE evaporative emission system components conform to the applicable performance requirements set forth in Cal. Code Regs., title 13, section 2754; and

WHEREAS, pursuant to California Health and Safety Code, sections 39515 and 39516, ARB Executive Officer issued EO G-05-008 delegating to the Chief of ARB Monitoring and Laboratory Division (MLD) the authority to certify SORE evaporative system components.

NOW, THEREFORE, I, Michael T. Benjamin, Chief of MLD, find that the Flambeau Inc. model HMW HDPE BLOW MOLDED RED fuel tanks conform with the 1.5 grams per square meter per day permeation performance requirements set forth in Cal. Code Regs., title 13, section 2754, when tested at a constant temperature of 40 °C using CE10 test fuel in accordance with Alternative Test Procedure TP-901.

IT IS ORDERED AND RESOLVED that all Flambeau Inc. model HMW HDPE BLOW MOLDED RED fuel tanks manufactured with a volume/internal surface area ratio equal to or greater than the ratio listed in Table 1 will emit evaporative emissions up to the reported permeation rate and that Flambeau Inc. model HMW HDPE BLOW MOLDED RED fuel tanks are certified for use in SORE equipment.

Table 1

Specifications for the Flambeau Fluid Systems Model HMW HDPE BLOW MOLDED RED Fuel Tanks	
Minimum Volume/Internal Surface Area Ratio (liters/meter <sup>2</sup> )	Reported Permeation Rate (grams/meter <sup>2</sup> /day)
35.30	0.85

IT IS FURTHER ORDERED that Flambeau Inc. shall provide a warranty to equipment manufacturers purchasing the Flambeau Inc. model HMW HDPE BLOW MOLDED RED fuel tanks. The warranty must conform to the requirements of Cal. Code Regs., title 13, section 2760.

IT IS FURTHER ORDERED that the certified Flambeau Inc. model HMW HDPE BLOW MOLDED RED fuel tanks shall be installed in accordance with the manufacturer's installation and use instructions for the Flambeau Inc. model HMW HDPE BLOW MOLDED RED fuel tanks. A copy of this EO and fuel tank installation and use instructions shall be provided to original equipment manufacturers purchasing Flambeau Inc. model HMW HDPE BLOW MOLDED RED fuel tanks for installation on small off-road engines and equipment introduced into commerce in California.

IT IS FURTHER ORDERED that the Flambeau Inc. model HMW HDPE BLOW MOLDED RED fuel tanks introduced into commerce in California shall be clearly identified by a permanent identification showing the manufacturer's name, EO number, and model number.

IT IS FURTHER ORDERED that any alteration to the Flambeau Inc. model HMW HDPE BLOW MOLDED RED fuel tanks certified hereby is prohibited. Any alteration or modification of the designs approved by this EO will require the manufacturer to apply for a new EO.

IT IS FURTHER ORDERED that the Flambeau Inc. model HMW HDPE BLOW MOLDED RED fuel tanks shall be compatible with fuels in common use in California at the time of certification, and any modifications to comply with future California fuel requirements shall be approved in writing by the Executive Officer or his delegate.

IT IS FURTHER ORDERED that the component certification of the Flambeau Inc. model HMW HDPE BLOW MOLDED RED fuel tanks can be referenced in certification applications for small off-road engines and equipment that use SORE unless the Executive Officer finds that the Flambeau Inc. model HMW HDPE BLOW MOLDED RED fuel tanks no longer meet the performance requirements set forth in Cal. Code Regs., title 13, section 2754, when tested pursuant to Cal. Code Regs., title 13, section 2765.

Executed at Sacramento, California, this 6<sup>th</sup> day of May 2015.



Dr. Michael T. Benjamin, Chief  
Monitoring and Laboratory Division