California Environmental Protection Agency AIR RESOURCES BOARD	NORTHERN CALIFORNIA DIAGNOSTIC LABORATORIES, INC.	EXECUTIVE ORDER M-171-0001 New On-Road Motorcycle Engines

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the engine and emission control systems produced by the manufacturer are certified as described below for use in new on-road motorcycles. Production engines and vehicles shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	EVAPORATIVE FAMILY	ENGINE DISPLACEMENT (cc)	CLASS
2009	9NCDC1856NCD	9NCDU0066NCD	1856, 1803, 1688	III

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	VEHICLE MODELS (equivalent inertia mass in kilograms, kg)	* = not applicable
TWC, 2O2S, SFI	1856 cc: Touring : A Motor 113 (510 kg) B Motor: B Motor 113 (510 kg) NCDL: A Motor 113 (510 kg) NCDL: B Motor 113 (510 kg) 1803 cc: A Motor: A Motor 110 (510 kg) B Motor: B Motor 110 (510 kg) NCDL: A Motor 110 (510 kg) NCDL: B Motor 110 (510 kg) 1688 cc: A Motor: A Motor 103 (510 kg) B Motor: B Motor 103 (510 kg) NCDL: A Motor 103 (510 kg) NCDL: B Motor 103 (510 kg)	

ABBREVIATIONS: EM=engine modification TWC=three-way catalyst OC=oxidizing catalyst WUTWC/WUOC=warm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S EGR=exhaust gas recirculation AIR=secondary air injection PAIR=pulsed AIR MFI=multi port fuel injection SFI=sequential MFI TBI=throttle body fuel injection DFI=direct fuel injection TC/SC=turbo/super charger CAC=charge air cooler 2 (prefix)=parallel (2) (suffix)=in series

The following are the exhaust hydrocarbon plus oxides of nitrogen (HC+NOx) and carbon monoxide (CO) standards, or designated HC+NOx standard as applicable, and certification levels in grams per kilometer (g/km), and evaporative standard and certification level in grams per test (g/test) for this engine/evaporative family. The designated HC+NOx standard, as applicable, shall be listed on the permanent tune-up label.

HC+NOx (g/km)				CO (g/km)		EVAPORATIVE (g/test)	
CORPORATE AVERAGE STANDARD	DESIGNATED STANDARD	(DIRECT) STANDARD	CERTIFICATION LEVEL	STANDARD	CERTIFICATION LEVEL	STANDARD	CERTIFICATION LEVEL
*	*	0.8	0.5	12	5	2.0	0.4

BE IT FURTHER RESOLVED: That certification to the designated HC+NOx standard listed above, as applicable, is subject to the following terms, limitations and conditions. The designated HC+NOx standard shall be the exhaust emission limit for this engine family and cannot be changed during the model year. It serves as the HC+NOx exhaust standard applicable to this engine family for determining compliance with Title 13, California Code of Regulations, Sections 1958(b) and 2101.

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all materials required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Code of Regulations, Sections 2035 et seq.).

BE IT FURTHER RESOLVED: New motorcycles using the engine listed above are certified under this Executive Order. Compliance with the procedures of Mail-Out MSO-2008-02 "California Certification Procedures for Highway Motorcycle Engines", is a requirement for such new motorcycles to be deemed certified under this Executive Order.

Within ten days after the completion of each new motorcycle not listed in this Executive Order, Northern California Diagnostic Laboratories, Inc. shall report to the Air Resources Board (ARB) the vehicle builder, vehicle identification number (VIN), or unique frame number. Within 45 days after the end of each production quarter, Northern California Diagnostic Laboratories, Inc. shall amend the application for certification to include the new motorcycle models (brand or make, and model name) that were completed in the preceding quarter.

BE IT FURTHER RESOLVED: That because the listed motorcycle engines are certified to 0.2 grams per test or more below the applicable evaporative standard, the vehicles are exempt from complying with the Air Resources Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" pursuant to Executive Order G-70-16-E.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Vehicles in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 29 day of December 2009.

Annette Hebert, Chief
Mobile Source Operations Division