



- Sez./Sect. “S” -
TEST SU VEICOLO / VEHICLE TEST

A conclusione dei test su veicolo, e prima dell’approvazione definitiva del progetto e seguente messa in produzione, il cliente deve ritornare a VM l’ “EPQ” firmato dal project manager a garanzia che le specifiche limitazioni tecniche non siano state superate. Al cliente è inoltre richiesto di accludere una tabella in cui siano riassunti i test fatti con le indicazioni dei valori ottenuti.

Di seguito si riporta il modulo “EPQ”:

Upon the conclusion of the vehicle tests, and prior to engineering sign-off and subsequent mass production, it is requested that the customer return to VM Motori the “End Product Questionnaire” signed by the project manager to guarantee that the specified technical limiting conditions have not been exceeded. The customer is also requested to enclose a table summarizing the tests carried out, and indicating the values achieved.

Below there is the “EPQ” form:



End Product Questionnaire

**D700 - D750 - SERIES
R750 - SERIES**

End Product Questionnaire nr.	
Engine Type:	
Serial Number & Engine stage (F3..F5):	
Machine Manufacturer:	
Machine Type:	
VM Operators:	
Date:	

	Yes / No
The Customer declare to respect all the requirements specified on the engine Installation Manual Edition N°	
DPF distance from turbine outlet (requested max 800 mm):	
Delta P sensor pipes continuously rising:	
Vacuum modulator position (not allowed on the engine):	
ECU position (vertical or tilted max 20°; not allowed horizontal position):	
Battery voltage/capacity:	
Battery cable size:	

REMARKS:

MODIFICATION REQUEST:

EPQ Approved Rejected Approved under modification reserve Outstanding for further verify

The approval is referred to the actual machine configuration; further modify must be point out to VM that will decide if a new approval is necessary.
The customer must provide to VM the documentations/drawings/pictures of all modifications done.

SIGNATURES:

<i>R&D Director</i>	<i>Tec Dept Director</i>	<i>Customer</i>
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ECU CALIBRATION:		EPQ nr.	
	Peak torque engine speed (Max load applicable)	Max power engine speed (Max load applicable)	Required
Engine speed	rpm		//
Engine load	%		At least 80%
Ambient temp	°C		//
Air temp at fan inlet	°C		No more than T.Amb + 15°C
Air temp at air filter	°C		No more than T.Amb + 15°C
Fuel temperature at pump inlet	°C		70°C max
Fuel absolute pressure at pump inlet	mbar		Min. 500 mbar
Air press. at intercooler inlet	mbar		//
Air press. at intercooler outlet	mbar		//
Δ press. through intercooler	mbar		< 100 mbar
Air temp at intercooler inlet	°C		//
Air temp at intercooler outlet	°C		Max 65°C @ 25°C Amb.
Water temp at radiator inlet	°C		//
Water temp at radiator outlet	°C		//
Oil temp into the sump	°C		Max 140°C in all condition
Water (relative) pressure at radiator inlet	mbar		//
Water (relative) pressure at radiator outlet	mbar		//
Δ press. through radiator	mbar		Max 300 mbar
Exhaust backpressure (dpf upstream)	mbar		Max 360 mbar
Pressure drop through air filter	mbar		Max 50 mbar (new filter) max 70 mbar (dirty filter)
Water radiator cap pressure	mbar		1050 – 1200 mbar
Exhaust gas temperature (dpf upstream)	°C		
A.T.B.	°C		Always ≥ 45°C
A.T.B.=T1–T0+Tamb; T1=Water Boiling Temperature (fixed in 105°C), T0=Water temperature at radiator inlet			
For Power unit only:			
			Check if misfiring occur at no load condition
			Stabilization time (s)

