

SAE J2723 Power Certification

MANUFACTURER: Ford Motor Company

ENGINE: 2.5L 4V I4

**MODEL YEAR &
VEHICLE APPLICATION** 2017 CD391/Ford Fusion (Regular Fuel/91 RON)

TEST STANDARD: SAE J1349

TEST LOCATION: Ford Dearborn Dynamometer 2E

ENGINE SERIAL NUMBER: CS-324-AA-XA6I8146

TEST/RUN NUMBER: AB3250 / 142 (Isometric Power Curve Adjustment)

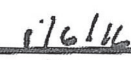
RESULTS:

The engine described herein was tested on 12/2/2011 according to the requirements prescribed in SAE J1349, Engine Power Test Code in the presence of a qualified SAE witness. The results were modified according to the isometric power curve procedure described in SAE J2723 and determined to produce the following results:

Parameter	Rated Speed	Rated Output
Power (hp/kW)	6000 rpm	173 hp / 129 kW
Torque (lb-ft/Nm)	4500 rpm	174 lb-ft / 236 N-m

APPROVALS:

The manufacturer declares that the engine tested for this report is representative of engines in series production. The manufacturer further declares that the performance of engines in series production will characteristically fall within 2% of the rated torque and power values indicated in this report.

 _____  _____
Name Title Date

Engine Speed	RPM	1496	1998	2494	2997	3498	3995	4247	4494	4745	4995	5495	5745	5996	6247	6498
Exhaust Gas Temp (@ manifold outlet) RH	C°	756.1	717.7	779.2	787.6	792.2	840.9	862.0	883.0	890.6	890.0	915.5	915.2	917.5	920.7	925.9
Test Cell Temp	C°	21.7	22.0	23.7	23.8	24.4	24.6	24.1	25.0	25.1	24.4	24.6	25.5	25.3	26.1	26.3
Inlet Air Temp	C°	25.3	24.9	25.2	25.3	25.4	25.0	25.1	25.3	25.4	25.4	25.4	25.2	25.0	25.2	25.2
Barometer (wet)	kPa	100.5	100.5	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6
Inlet Air Vapor Press.	kPa	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Inlet Air Press (restriction)	kPa	100.4	100.1	99.5	98.8	98.4	97.6	97.4	96.9	96.4	96.0	95.0	94.6	94.1	93.8	93.6
Intake Manifold Temp	C°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Intake Manifold Press.	kPa	100.4	100.1	99.5	98.8	98.4	97.6	97.4	96.9	96.4	96.0	95.0	94.6	94.1	93.8	93.6
Fuel Rail Press.	kPa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oil Press. (in gallery)	kPa	225.4	280.3	291.3	318.1	332.5	335.5	355.3	361.4	373.7	378.3	388.8	388.8	389.5	389.4	385.5
Exhaust Press (@ manifold outlet) LH	kPa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exhaust Press (@ manifold outlet) RH	kPa	2.9	4.4	8.9	12.4	15.4	21.9	24.8	29.0	31.4	33.9	39.5	41.7	43.6	45.0	46.0
Fuel Flow	g/s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Flow	kg/hr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Boost Press.	kPa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Intercooler Inlet Temp	C°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Intercooler Inlet Press.	kPa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Intercooler Outlet Temp	C°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Intercooler Outlet Press.	kPa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressor Inlet Temp	C°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressor Inlet Press.	kPa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressor Outlet Temp	C°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compressor Outlet Press	kPa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Charge Air Cooler Efficiency	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	1496	1998	2494	2997	3498	3995	4247	4494	4745	4995	5495	5745	5996	6247	6498
Engine Speed	RPM														
Total Mass Airflow	m ³ / min	27.55	39.46	54.31	67.76	75.66	91.24	106.93	112.38	117.83	128.08	132.63	136.12	138.51	140.04
Exhaust Stack Back Press. (if test cell ass'y)	kPa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Smoke (optional - CI engines only)	state units	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spark Advance / Ignition Timing	BTDC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Injection Timing (diesel)	BTDC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ECU Engine Speed	rpm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ECU Mass Airflow	g/s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ECU MAP (manifold absolute press.)	kPa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ECU Spark Advance	BTDC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ECU Intake cam Position	°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ECU Exhaust cam Position	°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ECU Commanded AFR - LH	:1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ECU Commanded AFR - RH	:1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Desired / Commanded Air/Fuel Ratio		0	0	0	0	0	0	0	0	0	0	0	0	0	0
ECU Throttle Position	VDC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ECU Battery Voltage	VDC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ECU Coolant Temp	C°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ECU Charge Air Temp	C°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ECU Barometer	kPa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total press. drop - Aux. Clr.	kPa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Engine Type: Ford Motor Company, DOHC(16) 2488cc, I4,
CD391- Regular Fuel (91RON)

