Approved Test facility



Low Emission Bus Scheme Certificate

Customer:	EVM Ltd								
Customer Address:	Comagh Business Park, Kilbeggan, Co. Westmeath, Ireland								
Test Purpose:	LEB Testing	Test Type: Certification DYNAMOMETER SETTINGS							
Vehicle Manufacturer:	EVM Ltd	Unladen weight	(kg)	3750	Test Weight	4424 kg			
Vehicle Type & Number:	Mercedes-Benz Sprinter, Unregistered	Gross Weight (kg)	5500	F°	307.98 N			
Engine:	Mercedes-Benz 2145cc 6	Seated Capacit	У	22	F¹	-11.9231 N/kmh			
Transmission:	7 G-tronic Automatic	Passenger Capacity		22	F²	0.52959 N/kmh ²			
Euro VI certificate Y/N	Manufacturer Certified	GVW Check		ок	F³	-0.004815 N/kmh ³			

Declared fuel, properties and source plus carbon conversion factors

Net Heating Value: Diesel	36.00	MJ / Litre	Fuel Provider	UK market standard
Well-to-Tank Factor: Diesel	17.02	g CO2e / MJ	WTT evidence	UK GHG reporting factors 2020
Well-to-Tank Factor: Electricity	80.04	g CO2e / MJ	Fuel Type	UK Pump Diesel, UK Grid Electricity

Emissions and Energy consumption results from approved test facility - Average 3 tests

Test Phase	HC (g/km)	CO (g/km)	NOx (g/km)	PM (g/km)	CO ₂ (g/km)	CH ₄ (g/km)*	N ₂ O (g/km)*	Fuel Consumption (I/100 km)	Fuel used over phase/cycle (litres)
Rural	0.000	0.000	0.006	N/A	311.3	0.000	0.013	11.76	0.867
Outer London	0.000	0.000	0.005	N/A	390.1	0.000	0.016	14.73	0.948
Inner London	0.000	0.000	0.020	N/A	545.3	0.000	0.025	20.59	0.508
MLTB Average	0.000	0.000	0.009	N/A	433.1	0.000	0.018	16.35	1.456
LUB Average	0.000	0.000	0.008	0.0011	377.9	0.000	0.016	14.27	2.322

Zero Emissions (Z.E.) Range: Energy consumption and charging efficiency							
Total measured energy consumed on vehicle (kWh)	N/A	Distance in Z.E. mode (km)	N/A	Usable Battery Capacity (kWh)	N/A		
Measured grid energy during charging (kWh)*	N/A	Charging efficiency (%)	N/A	Max Theoretical Z.E. Range (km)	N/A		

Total Tank-to-Wheel GHG CO 2 equivalent							
Test Phase	CO ₂ (g/km)	CH ₄ (g/km x 25)*	N ₂ O (g/km x 298)*	Fuel TTW** GHG (CO2 Equivalent g/km)			
Rural	311.3	0.001	3.752	315.0			
Outer London	390.1	0.001	4.703	394.8			
Inner London	545.3	0.002	7.445	552.7			
MLTB Average	433.1	0.000	5.462	438.5			
LUB Average	377.9	0.001	4.689	382.6			

Calculated total Well-to-Wheel GHG CO 2 equivalent emissions over test							
Test Phase	Fuel Energy	Fuel WTT*GHG Emissions	Electrical Energy	Electricity WTT* GHG Emissions	Measured Fuel TTW** GHG Emissions	Total WTW*** GHG Emissions	
	(MJ /km)	(g CO ₂ e / km)	(MJ / km)	(g CO ₂ e / km)	(g CO₂e / km)	(g CO₂e / km)	
Rural	4.23	72.0	N/A	N/A	315.0	387.1	
Outer London	5.30	90.3	N/A	N/A	394.8	485.1	
Inner London	7.41	126.2	N/A	N/A	552.7	678.9	
MLTB Average	5.89	100.2	N/A	N/A	438.5	538.8	
LUB Average	5.14	87.4	N/A	N/A	382.6	470.1	

Data Generated by (On behalf of Test facility):

Date:07/01/2021

Data Approved by:

Date: 08/01/2021

Low Emission Bus Certificate Summary						
GHG Well-to-Wheel	470.1	g CO ₂ e / km				
Euro VI Average Diesel Equivalent	701.0	g CO₂e / km				
WTW GHG saving (compared with Euro VI diesel equivalent)	230.9	g CO ₂ e / km				
% WTW GHG saving (compared with Euro VI diesel equivalent)	33%	g CO ₂ e / km				
Zero Emission operating range (km)	N/A	km				
WTW CO ₂ per passenger km (@ Max Pass Capacity)	21.4	g CO₂e/pass km				
Approved as Low Emission Bus? (15% saving or more)	YES					

COM	ME	NTS:

Emission results marked in red are below detection levels.

Test Numbers:	ML02019582 (06-Jan-21), ML02019583 (06-Jan-21)), ML02019584 (06-Jan-21).			
Certificate approved by:		Certificate Approved by:	Daniel Hayes	D 1/1	
On behalf of Bus manufactur	er	On behalf of LowCVP/DfT	25/01/2021	(migray s	