

Low Emission Bus Scheme Certificate

Customer:	Mellor Coachcraft				
Customer Address:	Miall Street, Rochdale, OL11 1HY				
Test Purpose:	LEB/LCEB Testing			DYNAMOMETER SETTINGS	
Vehicle Manufacturer:	Mellor Coachcraft	Unladen weight (kg)	3572.0	Test Weight	4562 kg
Vehicle Type & Number:	Strata Bus (Merceded Sprinter Chassis); LO67 CGX	Gross Weight (kg)	5500.0	F°	102.29 N
Engine:	Mercedes OM651 955 Euro VI	Seated Capacity	21	F ¹	3.1728 N/kmh
Transmission:	Mercedes Automatic	Passenger Capacity	22	F ²	0.08056 N/kmh ²
Euro VI certificate Y/N	Manufacturer Certified	GVW Check	OK	F ³	-0.000514 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	15.42	g CO _{2e} / MJ	WTT evidence	UK GHG reporting factors 2016
Well-to-Tank Factor: Electricity	143.50	g CO _{2e} / 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 (l/100 km)	Fuel used over phase/cycle (litres)
Rural	0.004	0.006	0.213	N/A	303.6	0.000	0.020	11.46	0.850
Outer London	0.009	0.013	0.152	N/A	371.7	0.000	0.021	14.04	0.906
Inner London	0.015	0.027	0.463	N/A	505.3	0.000	0.030	19.08	0.478
MLTB Average	0.010	0.017	0.239	N/A	409.0	0.000	0.024	15.45	1.384
LUB Average	0.008	0.012	0.227	0.0010	361.3	0.000	0.022	13.64	2.234

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 CO₂ equivalent

Test Phase	CO ₂ (g/km)	CH ₄ (g/km x 25)*	N ₂ O (g/km x 298)*	Fuel TTW** GHG (CO ₂ Equivalent g/km)
Rural	303.6	0.000	6.040	309.6
Outer London	371.7	0.000	6.365	378.1
Inner London	505.3	0.000	8.986	514.3
MLTB Average	409.0	0.000	7.098	416.1
LUB Average	361.3	0.000	6.619	367.9

Calculated total Well-to-Wheel GHG CO₂ equivalent emissions over test

Test Phase	Fuel Energy (MJ / km)	Fuel WTT*GHG Emissions (g CO _{2e} / km)	Electrical Energy (MJ / km)	Electricity WTT* GHG Emissions (g CO _{2e} / km)	Measured Fuel TTW** GHG Emissions (g CO _{2e} / km)	Total WTW*** GHG Emissions (g CO _{2e} / km)
Rural	4.13	63.6	N/A	N/A	309.6	373.2
Outer London	5.05	77.9	N/A	N/A	378.1	456.0
Inner London	6.87	105.9	N/A	N/A	514.3	620.2
MLTB Average	5.56	85.8	N/A	N/A	416.1	501.9
LUB Average	4.91	75.7	N/A	N/A	367.9	443.6

Data Generated by (On behalf of Test facility):

Date: 04.04.2018

Data Approved by:

Date: 05.04.2018

Low Emission Bus Certificate Summary

GHG Well-to-Wheel	443.6	g CO _{2e} / km
Euro V Average Diesel Equivalent	687.2	g CO _{2e} / km
WTW GHG saving (compared with Euro V diesel equivalent)	243.6	g CO _{2e} / km
% WTW GHG saving (compared with Euro V diesel equivalent)	35%	g CO _{2e} / km
Zero Emission operating range (km)	N/A	km
WTW CO ₂ per passenger km (@ Max Pass Capacity)	20.2	g CO _{2e} /pass km
Approved as Low Emission Bus? (15% saving or more)	YES	

* WTT : Well-to-Tank

** TTW : Tank-to-Wheel

*** WTW : Well-to Wheel

COMMENTS:

Emission results marked in red are below detection levels.

Test Numbers: ML02017879 (03 April 2018), ML02017880 (03 April 2018), ML02017881 (03 April 2018).

Certificate approved by:

Certificate Approved by:

On behalf of Bus manufacturer

On behalf of LowCVP/DfT