



OECD approval number

1 711/2

Restricted Code

OECD approval date

01/12/1997

Make

Massey Ferguson

Model

8120

Type

4 WD

H115225A611A - 30 speeds - 30 km/h

Manufacturer

Agco S.A.

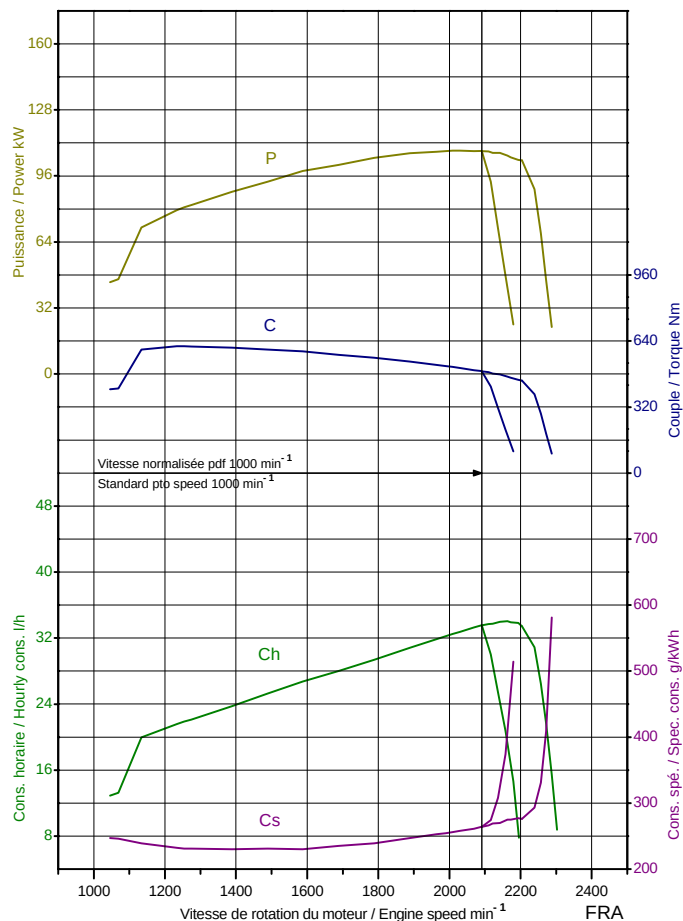
Testing station:

Cemagref, Antony, France

Massey Ferguson 8120

4 RM/WD

OCDE/OECD 1711/2



**Engine, Transmission, Power take-off Specifications**

|                                                   |                      |                             |                              |
|---------------------------------------------------|----------------------|-----------------------------|------------------------------|
| <i>Make, Model</i>                                | Perkins              | YK31312-1930/2200           |                              |
| <i>Type, Supercharging</i>                        | Direct injection     | Yes                         |                              |
| <i>Cylinders, Disposition</i>                     | 6                    | vertical in line            |                              |
| <i>Capacity, Cooling</i>                          | 5985 cm <sup>3</sup> | Liquid                      |                              |
| <i>Gear box</i>                                   |                      | Mechanical synchronized     |                              |
| <i>Number of forward and reverse speeds</i>       |                      | 30                          | 30                           |
| <i>Speed at rated engine speed</i>                |                      | from 2.13                   | to 26.28 km/h                |
| <i>Standard Power take-off speed</i>              |                      | <u>540 min<sup>-1</sup></u> | <u>1000 min<sup>-1</sup></u> |
| <i>Power take-off speed at rated engine speed</i> |                      | 596 min <sup>-1</sup>       | 1052 min <sup>-1</sup>       |
| <i>Diameter of the shaft</i>                      |                      | 34.9 mm                     | 34.9 mm                      |
| <i>Number of splines</i>                          |                      | 6                           | 21                           |

**Power take-off Test**Two hours test at maximum power

|                                               |          |                        |                       |
|-----------------------------------------------|----------|------------------------|-----------------------|
| <i>Power, Engine and Power take-off speed</i> | 108.2 kW | 2009 min <sup>-1</sup> | 961 min <sup>-1</sup> |
| <i>Hourly and specific consumption</i>        |          | 32.47 l/h              | 256 g/kWh             |

Test at maximum power at rated engine speed

|                                               |          |                        |                        |
|-----------------------------------------------|----------|------------------------|------------------------|
| <i>Power, Engine and Power take-off speed</i> | 103.5 kW | 2204 min <sup>-1</sup> | 1054 min <sup>-1</sup> |
| <i>Hourly and specific consumption</i>        |          | 33.45 l/h              | 276 g/kWh              |

Test at standard Power take-off speed

|                                               |          |                        |                        |
|-----------------------------------------------|----------|------------------------|------------------------|
| <i>Power, Engine and Power take-off speed</i> | 108.0 kW | 2091 min <sup>-1</sup> | 1000 min <sup>-1</sup> |
| <i>Hourly and specific consumption</i>        |          | 33.52 l/h              | 264 g/kWh              |

Torque rise

|                                                   |  |          |                        |
|---------------------------------------------------|--|----------|------------------------|
|                                                   |  |          | 37.0 %                 |
| <u>Maximum torque, Engine speed corresponding</u> |  | 614.3 Nm | 1254 min <sup>-1</sup> |

**Drawbar Test***Front tyres, Rear tyres*

|  |           |           |
|--|-----------|-----------|
|  | 16.9 R 28 | 20.8 R 38 |
|--|-----------|-----------|

Test with tractor*Total Mass*

|  |                    |                  |
|--|--------------------|------------------|
|  | <u>unballasted</u> | <u>ballasted</u> |
|--|--------------------|------------------|

*Maximum drawbar pull*

|  |         |  |
|--|---------|--|
|  | 5905 kg |  |
|--|---------|--|

*at speed of*

|  |         |     |
|--|---------|-----|
|  | 52.1 kN | Not |
|--|---------|-----|

*Maximum power*

|  |           |          |
|--|-----------|----------|
|  | 1.93 km/h | required |
|--|-----------|----------|

*at speed of*

|  |         |    |
|--|---------|----|
|  | 92.2 kW | in |
|--|---------|----|

*at hitch points, at frame*

|  |           |        |
|--|-----------|--------|
|  | 8.88 km/h | Code 2 |
|--|-----------|--------|

**Hydraulic Performance and Power Lift Test***Hydraulic system*

|  |  |  |               |
|--|--|--|---------------|
|  |  |  | Opened centre |
|--|--|--|---------------|

At maximum hydraulic power

|                                   |             |          |         |
|-----------------------------------|-------------|----------|---------|
| <i>Flow rate, Pressure, Power</i> | 111.8 l/min | 15.0 MPa | 28.0 kW |
|-----------------------------------|-------------|----------|---------|

Maximum lifting force

|  |  |         |         |
|--|--|---------|---------|
|  |  | 54.5 kN | 49.2 kN |
|--|--|---------|---------|

