



OECD approval number

2/2 129

Restricted Code

OECD approval date

17/05/2004

Make

Claas

Model

Ares 826 RZ

Type

4 WD

H4422EA - 40 km/h

Manufacturer

CLAAS KGaA mbH

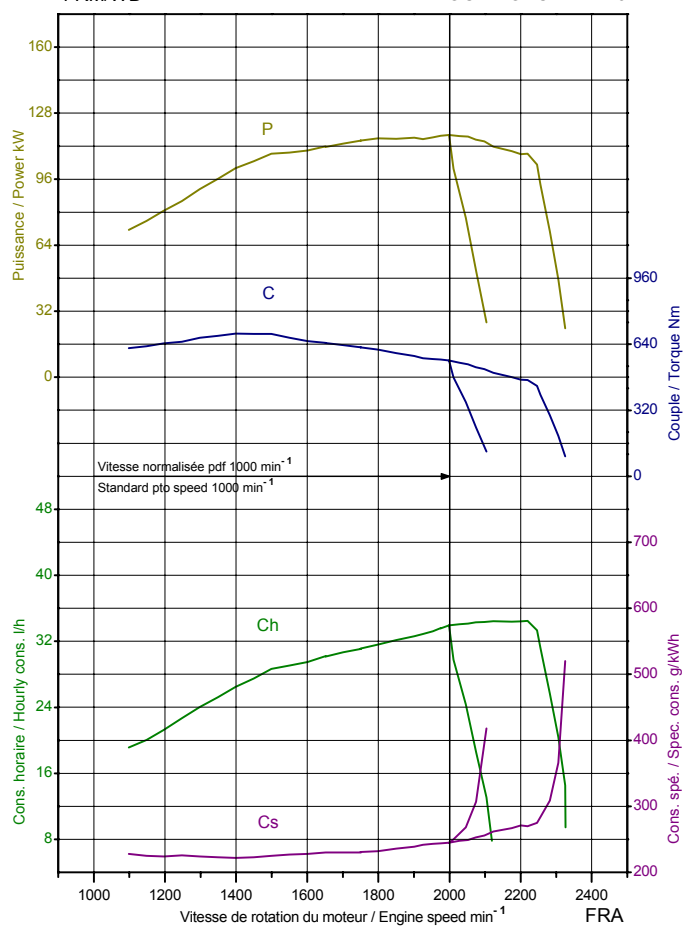
Testing station:

Cemagref, Antony, France

Claas Ares 826 RZ

4 RM/WD

OCDE/OECD 2/2129



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

|                                                   |                      |                                                          |
|---------------------------------------------------|----------------------|----------------------------------------------------------|
| <i>Make, Model</i>                                | John Deere           | DPS 6068HRT71                                            |
| <i>Type, Supercharging</i>                        | Direct injection     | Yes                                                      |
| <i>Cylinders, Disposition</i>                     | 6                    | vertical in line                                         |
| <i>Capacity, Cooling</i>                          | 6788 cm <sup>3</sup> | Liquid                                                   |
| <i>Gear box</i>                                   |                      | Mechanical                                               |
| <i>Number of forward and reverse speeds</i>       |                      | 32 32                                                    |
| <i>Speed at rated engine speed</i>                |                      | from 2.38 to 41.84 km/h                                  |
| <u>Standard Power take-off speed</u>              |                      | <u>540 min<sup>-1</sup></u> <u>1000 min<sup>-1</sup></u> |
| <i>Power take-off speed at rated engine speed</i> |                      | 629 min <sup>-1</sup> 1100 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> | 117.5 kW | 2000 min <sup>-1</sup> | 1000 min <sup>-1</sup> |
| <i>Hourly and specific consumption</i>        |          | 33.94 l/h              | 245 g/kWh              |

Test at maximum power at rated engine speed

|                                               |          |                        |                        |
|-----------------------------------------------|----------|------------------------|------------------------|
| <i>Power, Engine and Power take-off speed</i> | 108.4 kW | 2220 min <sup>-1</sup> | 1110 min <sup>-1</sup> |
| <i>Hourly and specific consumption</i>        |          | 34.47 l/h              | 270 g/kWh              |

Test at standard Power take-off speed

|                                               |          |                        |                        |
|-----------------------------------------------|----------|------------------------|------------------------|
| <i>Power, Engine and Power take-off speed</i> | 117.9 kW | 2000 min <sup>-1</sup> | 1000 min <sup>-1</sup> |
| <i>Hourly and specific consumption</i>        |          | 33.94 l/h              | 245 g/kWh              |

Torque rise

|                                                   |          |                        |
|---------------------------------------------------|----------|------------------------|
|                                                   |          | 48.3 %                 |
| <u>Maximum torque, Engine speed corresponding</u> | 692.0 Nm | 1399 min <sup>-1</sup> |

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

|                          |                         |                       |
|--------------------------|-------------------------|-----------------------|
| <u>Test with tractor</u> | 600/65 R 28 unballasted | 650/75 R 38 ballasted |
|--------------------------|-------------------------|-----------------------|

*Total Mass*

|  |         |  |
|--|---------|--|
|  | 7730 kg |  |
|--|---------|--|

*Maximum drawbar pull*

|  |         |     |
|--|---------|-----|
|  | 69.9 kN | Not |
|--|---------|-----|

*at speed of*

|  |           |          |
|--|-----------|----------|
|  | 2.19 km/h | required |
|--|-----------|----------|

*Maximum power*

|  |          |    |
|--|----------|----|
|  | 103.5 kW | in |
|--|----------|----|

*at speed of*

|  |           |        |
|--|-----------|--------|
|  | 7.47 km/h | Code 2 |
|--|-----------|--------|

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

|                                   |  |  |               |
|-----------------------------------|--|--|---------------|
| <u>At maximum hydraulic power</u> |  |  | Closed centre |
|-----------------------------------|--|--|---------------|

|                                   |            |          |         |
|-----------------------------------|------------|----------|---------|
| <i>Flow rate, Pressure, Power</i> | 86.1 l/min | 14.9 MPa | 21.4 kW |
|-----------------------------------|------------|----------|---------|

|                              |  |  |  |
|------------------------------|--|--|--|
| <u>Maximum lifting force</u> |  |  |  |
|------------------------------|--|--|--|

|                                  |  |         |         |
|----------------------------------|--|---------|---------|
| <i>at hitch points, at frame</i> |  | 78.4 kN | 72.2 kN |
|----------------------------------|--|---------|---------|

