DLG-Data Sheet Tractors 2003

Case-IH STX 325

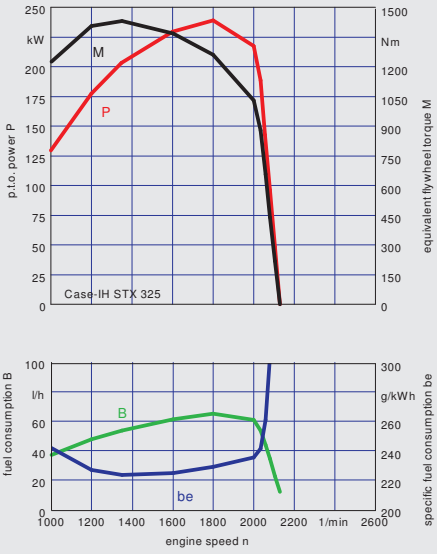
OECD Test No. 2/1974 (Date 02/2002)

Engine

Case 6TAA-9304, rated engine power 242 kW at 2000 min^{-1}, turbocharger, intercooler, 6 cylinder, capacity 8849 cm^3, bore 114 mm, stroke 144,5 mm, water cooled, viscous fan, average pressure 16,4 daN/cm^2, fuel tank capacity 757 l

Measurement at main power take off

	Rated engine speed 2000 min^{-1}	*Engine speed at max power 1800 min^{-1}*
Power	217,6 kW	239,2 kW
Fuel consumption	60,9 l/h	65,1 l/h
Specific fuel cons.	236 g/kWh	230 g/kWh



Average fuel consumption of

the 6 measurement points from the governor curve 38,1 l/h, 279 g/kWh

Equivalent flywheel torque

Max. torque 1440 Nm at 1350 min^{-1}, torque increase 39 % at a speed drop of 33 %

Torque at engine speed 1000 min^{-1}

119 % rated to the torque at rated engine speed

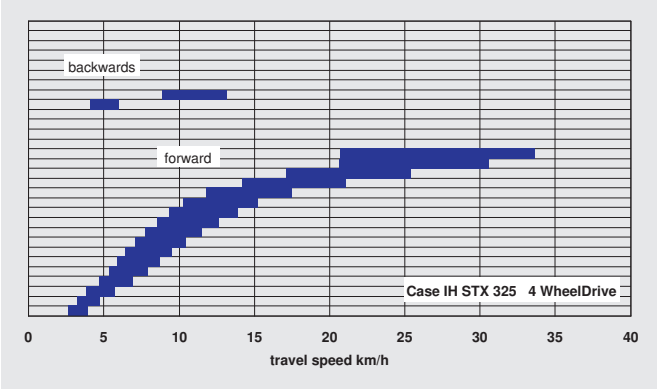
Power Take Off

Wet multi-disc clutch, electro-hydraulically operated, 1 rear p.t.o., form 3,

Standard speed	540	540 E	1000	1000E
Engine speed	-	-	1998 min^{-1}	-

Gearbox

Wet multi-disc clutch , 17 forward, 2 reverse, full power shift; 1 shift lever



Speed scheme arranged by groups, for every gear in the speed range from the engine speed at max. torque to the rated engine speed.

Drawbar power

Max. power 217,1 kW at 7,0 km/h and engine speed 1800 min^{-1}, at 256 g/kWh; at rated engine speed 194,5 kW at 7,9 km/h, at 268 g/kWh



Chassis

All wheel drive, front and rear multi-plate differential locks, electro-hydraulically operated with switch

Front	Tyre 20.8 R 42
Rear	Tyre 20.8 R 42

Brakes

Oil-immersed disc brake at the rear axle,

Cab

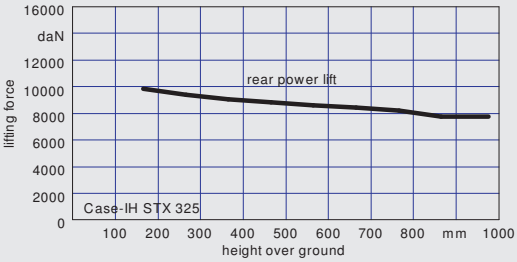
Case-IH STX, OECD-No. 4/0 628, 2 doors, cooling water heat exchanger, air conditioner

Sound levels at drivers ear

	Unloaded	*Under load*
At 7.5km/h, nominal gear selected, all openings closed	-	-
Open	-	-
In loudest gear, all openings closed	-	-

Hydraulic system

Closed centre type; pressure and flow compensated system, power lift category 4, 2 external cylinders with 102 mm diameter



Oil tapping port

Max flow rate 154,8 l/min; max. hydraulic power 36,9 kW at 168 bar and 131,0 l/min; max. pressure 198 bar; seperate hydraulic oil tank with 178 l capacity, available to external cylinders 20 l

Masses/Axle load

Mass	*Test tractor*	*Permissable total mass*
Front	8140 kg	-
Rear	6345 kg	-
Total	14485 kg	-17700 kg

Tractor mass to engine power ratio 60 kg/kW

Dimensions

Width 3861 mm, length 7010 mm, height at top of exhaust silencer pipe 3607 mm, at cab 3480 mm, wheel base 3531 mm, distance from p.t.o. shaft end to trailer hitch 156 mm, distance from p.t.o. shaft end to lower link couplers 871 mm

Remarks

The test tractor was equiped with dual wheels, therefore for the test the tractor had a higher test weight and a larger width.

Test centre
Nebraska, USA