



Perkins

X300-12

Military Vehicle Transmission

GENERAL DATA

Application	Tracked vehicles in the 20 to 36 tonnes category
Input power	300kW – 600kW
Control	Full Electronic Control
Rotation input	Anti-clockwise (viewed from rear)
Rotation output	Anti-clockwise (viewed from right hand side) (clockwise optional)
Input/Output drives	External toothed ring/Internal splines
Torque converter	Single-stage multi-phase with lock-up clutch
Lock-up clutch	Single-plate automatic hydraulic application
Range clutches	Wet multi-plate hydraulic application
Brakes	Wet multi-plate hydraulic application with mechanical back-up
Steering	Hydrostatically controlled double differentials with pivot steer in neutral

GEAR RATIOS

Forward (First to Fourth)	4.16:1 / 2.00:1 / 1.28:1 / 0.86:1
Reverse (First and Second)	5.75:1 / 1.43:1
Total ratio coverage (including converter)	13.06:1
Power take-off drive	Input driven at 1.08 x engine speed

OIL SYSTEM

Main pressure delivery	493 l/m (108 gpm) @ 2600 rpm
Scavenge delivery	556 l/m (122 gpm) @ 2600 rpm
Oil capacity	75.7 litres (20 US gallons)
Oil temperature normal/maximum	82-104°C (180-220°F)

WEIGHT/DIMENSIONS

Dry weight	943 kg (2080 lb)
Length	921mm (36.3")
Width	1042mm (41")
Height (overall)	846mm (33.3")
Height above output centre line	538mm (21.2")

Further details available from:

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