

Hydraulic System Piping

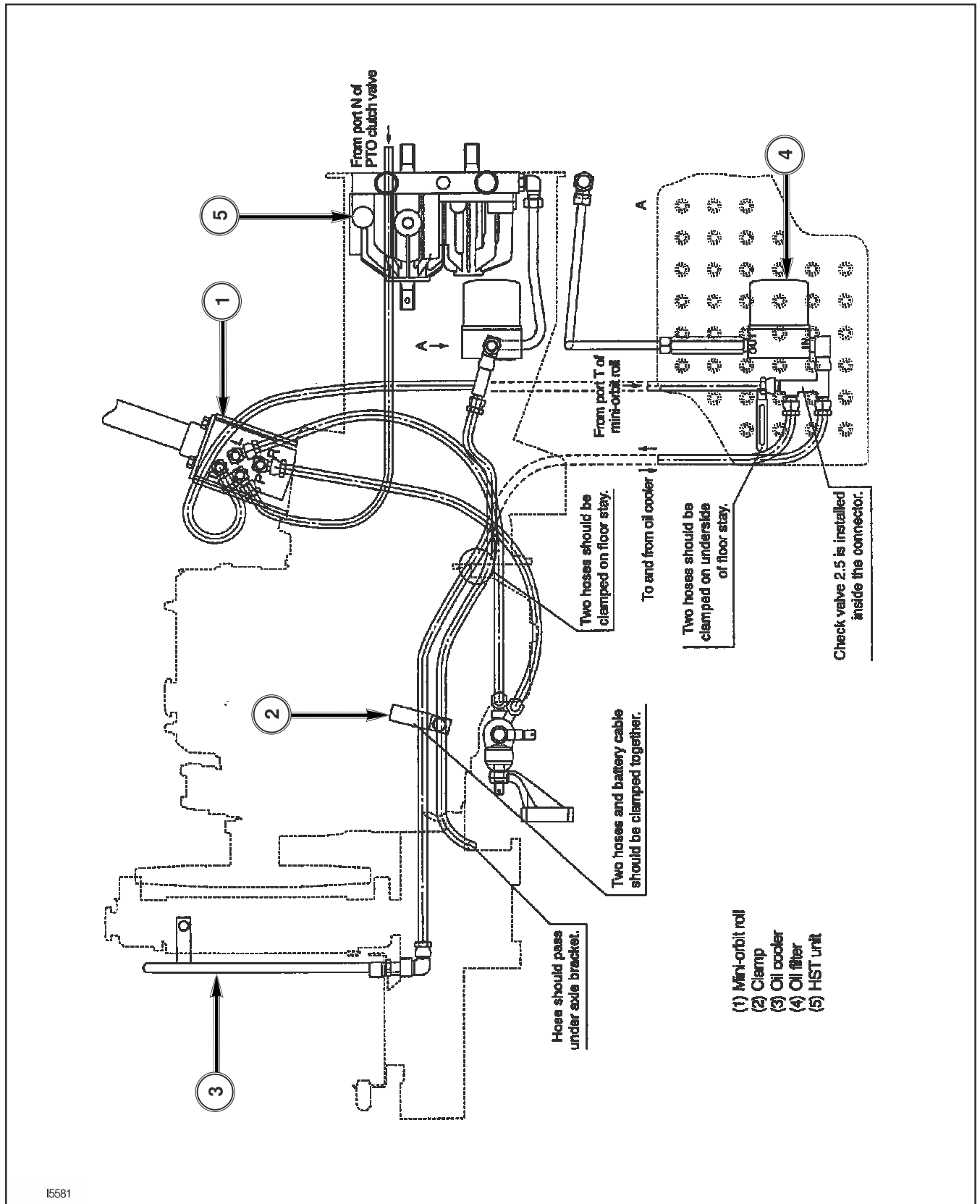


FIG. 7

FIG. 7: Hydraulic Piping - 1423, ST25, MT225 Hydro

SPECIFICATIONS 1417

Piston and Cylinder	Piston diameter	Ø 65mm (ø2. 56 in)
	Cylinder bore	Ø 65mm (ø2. 56 in)
	Piston stroke	75mm(2.95in)
Lift Capacity (at lower link end)		480 kgf (1058 lbs)
Main Control Valve	C-port leak	5cc (0.8cu.in)/min or less [under a pressure of 100kgf/cm ² (1422 psi)]
Main Relief Valve	Cracking pressure	120kgf/cm ² (1711 psi) or more (leak less than 300cc (4. 8cu. in) / min)
	Relief pressure	140 kgf/cm ² (1991 psi) [under a flow rate of 18 liters/min]
	Leak	0.1cc (0.016cu.in)/min or less [under a pressure of 100kgf/cm ² (1422 psi)]
Safety valve	Cracking pressure	155 kgf/cm ² (2204 psi) [under a flow rate of 0.3 liters/min]
	Relief pressure	190kgf/cm ² (2702 psi) or more [under a flow rate of 20 lit/min]
	Leak	0.1cc (0.016cu. In)/min or less (under a pressure of 100kgf/cm ² (1422 psi)
Flow-control valve	Maximum Pressure	280 kgf/cm ² (3982 psi)
	Leak when closed fully	0.1cc (0.16cu.in)/min or less [under a cylinder load of 100kgf/cm ² (1422psi) and at an oil temperature of 50±5°C (122°F ± 41 °F)]
Gear pump	Theoretical delivery	7.91 cc/rev (0.48 cu.in./rev)
	Gear ratio	0.912 to 1
	Input Speed	2500rpm
	Maximum Flow	18 liter / min (4.76 gpm)
Suction filter	Filtering density	200-mesh