A TEREX COMPANY

Service and Repair Manual

Serial Number Range

GTH-1256 *(Perkins Tier 4i)*

From GTH1215M-101 to GTH1216M-249

From GTH12M-250 to GTH12M-280

GTH-1256 *(Deutz Tier 4i)*

From GTH1215M-101 to GTH1216M-249

From GTH12M-250 to GTH12M-280

This manual includes:
Repair procedures
Fault Codes
Electrical and Hydraulic Schematics

For detailed maintenance procedures, Refer to the appropriate Maintenance Manual for your machine.

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SPECIFICATIONS

Hydraulic Components Specifications

Boom and Steering Functions Pump	
Type:	variable displacement piston pump
Displacement	0 to 3.7 cu in 0 to 60 cc
Flow rate @ 2200 rpm	35 gpm 132 L/min
Pump pressure, maximum (measured at test port TP1)	3915 psi 270 bar
Pressure compensator (measured at test port TP1)	3915 psi 270 bar
Stand-by pressure (measured at test port TP5)	290 psi 20 bar

Auxiliary Gear Pump	
Type:	fixed displacement gear pump
Displacement	1.53 cu in 25 cc
Flow rate @ 2200 rpm	15 gpm 56 L/min
Pump pressure, maximum (measured at test port TP2)	3625 psi 250 bar
Relief valve pressure, maximum (measured at test port TP2)	3625 psi 250 bar

Hydraulic Oil Radiator Fan Pump	
Type:	fixed displacement gear pump
Displacement (Deutz Configuration)	0.73 cu in 12 cc
Flow rate @ 2200 rpm (Deutz Configuration)	8 gpm 31 L/min
Displacement (Perkins Configuration)	0.98 cu in 16 cc
Flow rate @ 2200 rpm (Perkins Configuration)	9 gpm 35 L/min

Hydraulic Oil Radiator Fan Pump	
Pump pressure, maximum	1740 psi 120 bar
Relief valve pressure, maximum	1740 psi 120 bar

Hydrostatic Transmission Pump	
Type:	variable displacement piston pump
Displacement	0 to 5.5 cu in 0 to 90 cc
Flow rate @ 2200 rpm	52 gpm 198 L/min
Pump pressure, maximum (measured at test port TP4)	6450 psi 445 bar
Relief valve pressure, maximum (measured at test port TP4)	6890 psi 475 bar
Pump charge relief valve pressure, maximum (measured at test port TP3)	290 psi 20 bar

Hydrostatic Transmission Motor	
Type:	variable displacement piston motor
Displacement	0 to 6.5 cu in 0 to 107 cc
Flow rate @ 2200 rpm	52 gpm 198 L/min
Motor pressure, maximum (measured at test port TP4)	6450 psi 445 bar
Relief valve pressure, maximum (measured at test port TP4)	6890 psi 475 bar

Continuous improvement of our products is a Genie policy. Product specifications are subject to change without notice.

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FAULT CODES

How to Troubleshoot the Perkins 1204E-E44TA Engine

Troubleshooting procedures and additional engine information is available in the Perkins 1204E-E44TA Troubleshooting Manual (Perkins part number KENR9116-01).

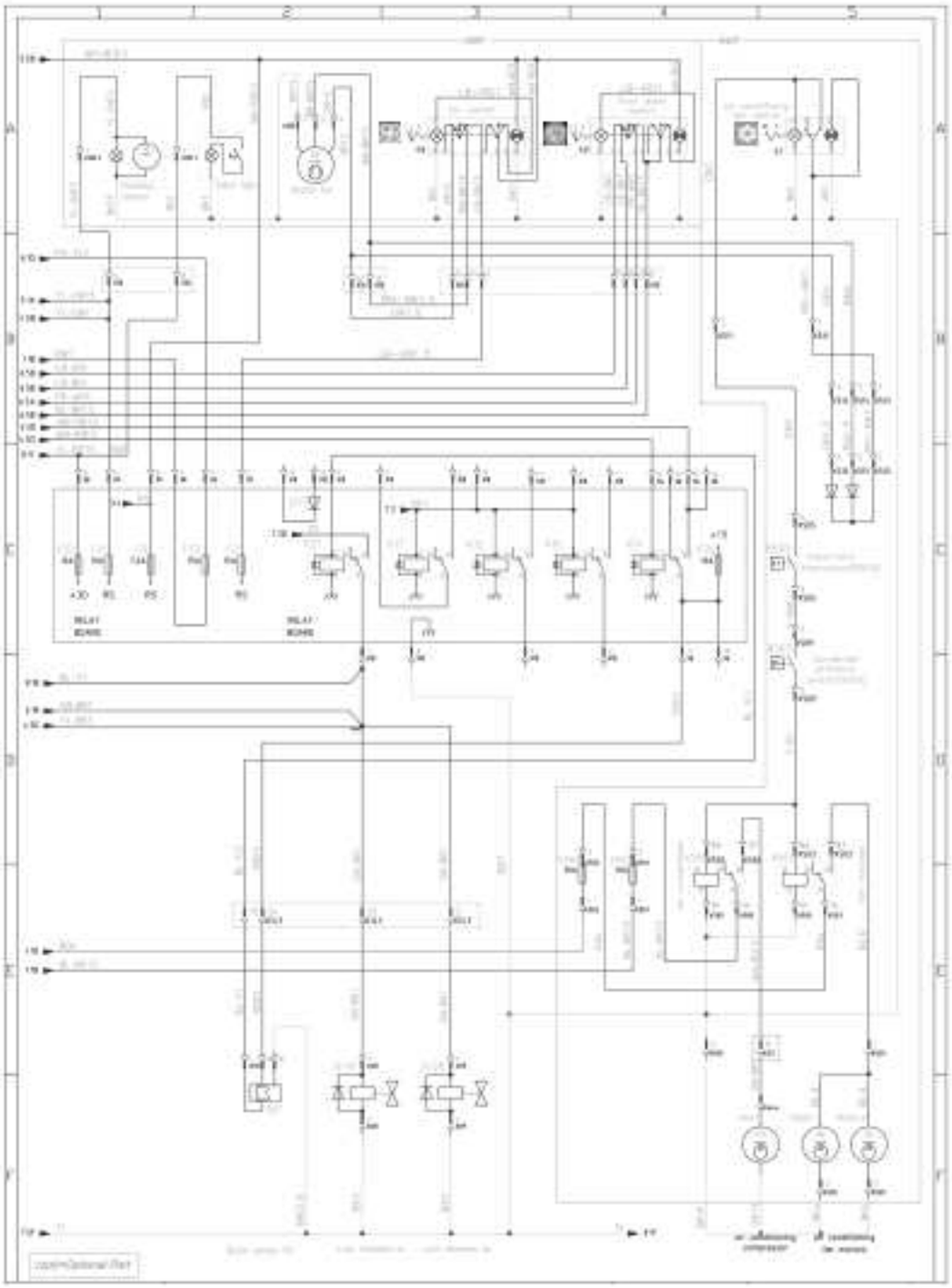
Perkins 1204E-E44TA Troubleshooting Manual	
Genie part number	57.4700.1400

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ELECTRICAL SCHEMATIC - PERKINS

From SN GTH1215 M-001

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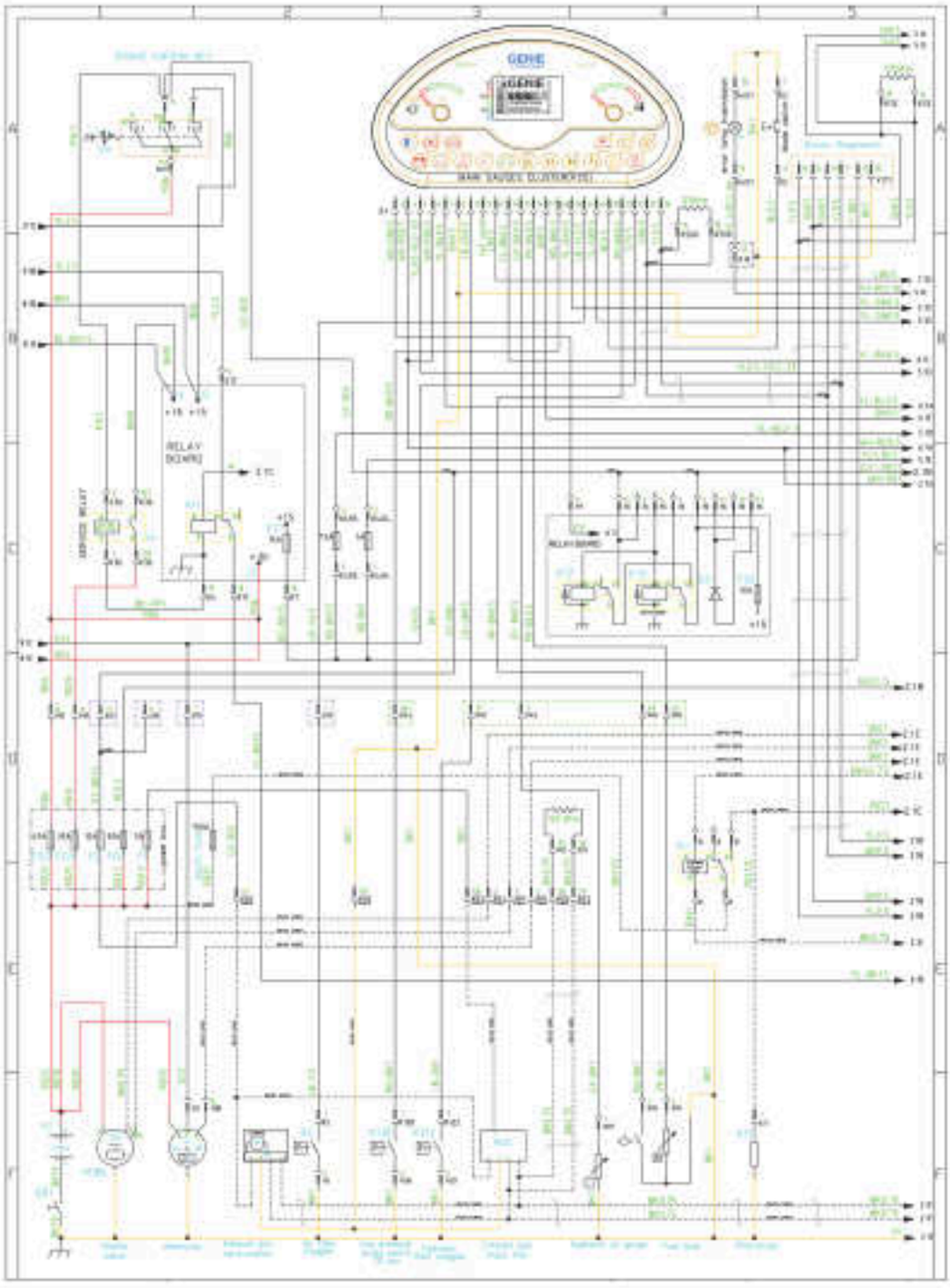


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Electrical Schematic - Deutz

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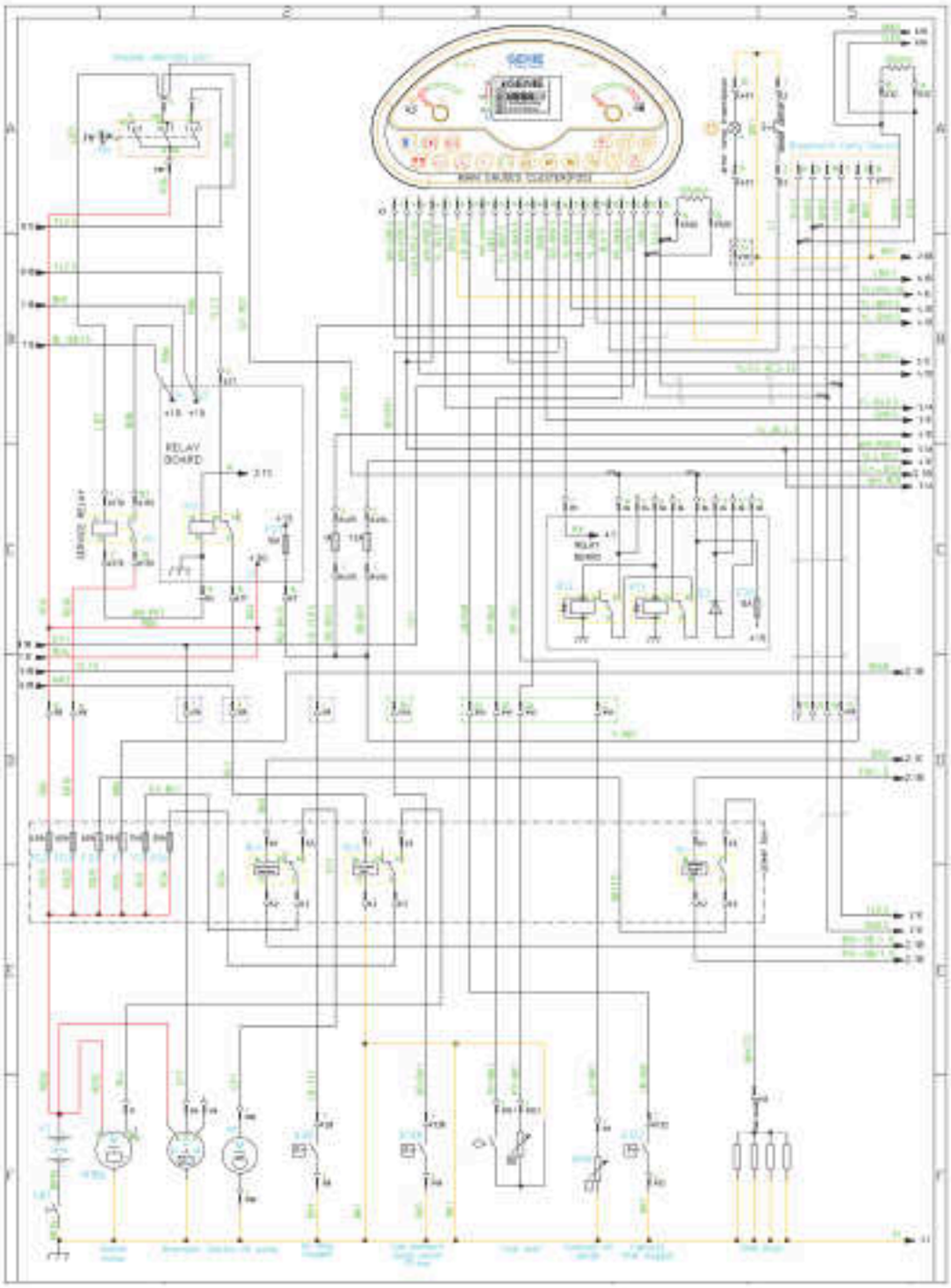


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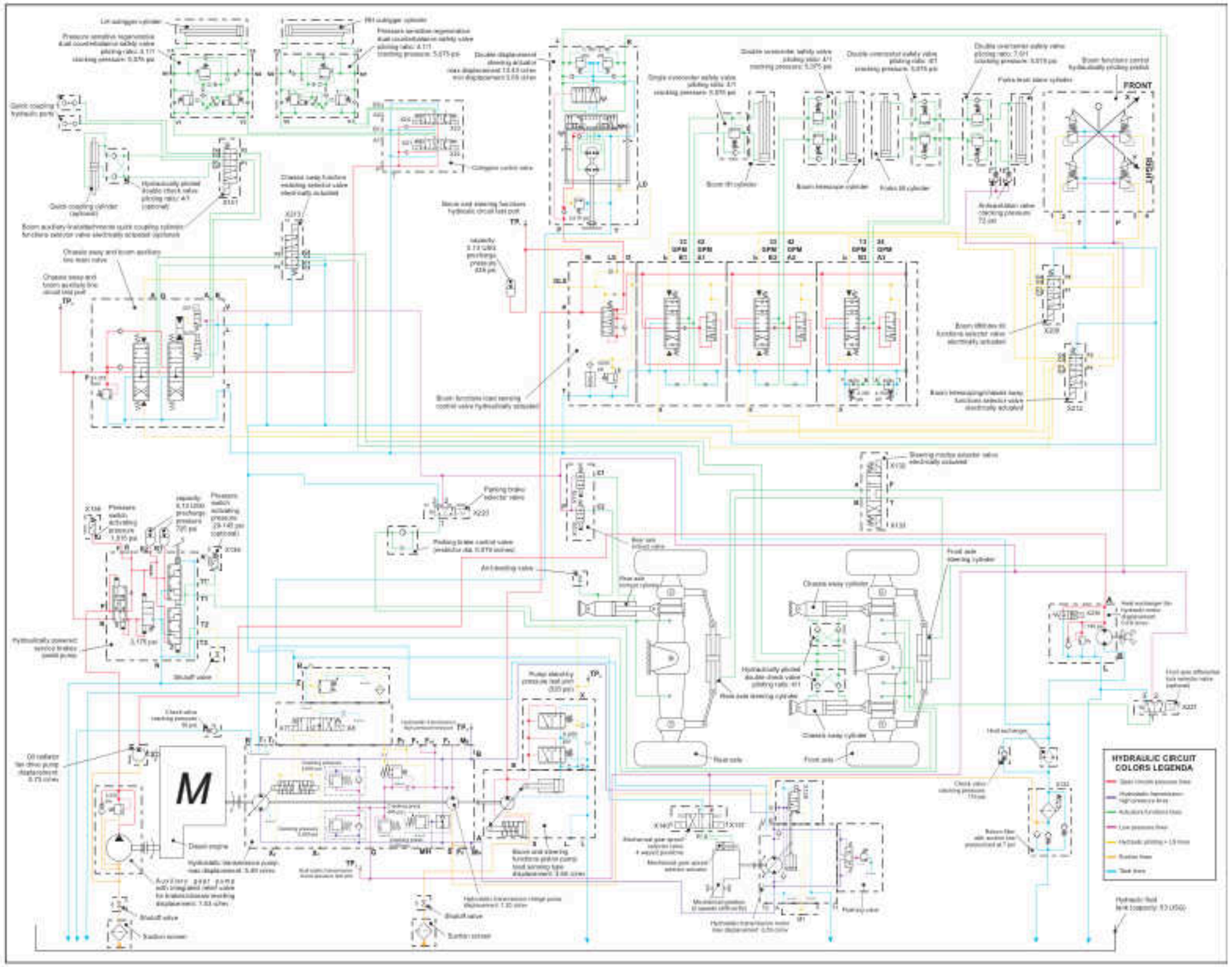
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Hydraulic Schematic - Deutz Engine

Deutz engine - Sheet 2 of 2



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