MAXXUM® 115 / MAXXUM® 115 Multicontroller / MAXXUM® CVT 115
MAXXUM® 125 / MAXXUM® 125 Multicontroller / MAXXUM® CVT 125
MAXXUM® 135 / MAXXUM® 135 Multicontroller / MAXXUM® CVT 135
MAXXUM® 145 / MAXXUM® 145 Multicontroller / MAXXUM® CVT 145
MAXXUM® 150 / MAXXUM® 150 Multicontroller

Tier 4B (final)

Tractor

SERVICE MANUAL

Part number 51675237

1st edition English

October 2015

CASE IH AGRICULTURE

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Contents

INTRODUCTION

Foreword - Important notice regarding equipment servicing 3
Foreword - How to use and navigate through this manual 4
Safety rules 9
Safety rules - Ecology and the environment 10
Basic instructions - Shop and assembly 11
Torque 13
Conversion factors 15
Consumables Lubrications and Coolants 16
Capacities 17

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Chapters

Each Chapter is identified by a number e.g. Engine - Engine and crankcase - 10.001. The first number is identical to the Section number i.e. Chapter 10.001 is inside Section 10, Engine. The second number is representative of the Chapter contained within the Section.

CONTENTS

The Chapter Contents lists all the technical data (specifications), functional data (how it works), diagnostic data (fault codes and troubleshooting), and service data (remove, install, adjust, etc.), that have been written in that Chapter for that function or system on the machine.

Contents

ENGINE

ENGINE - Engine and crankcase – 10.001

TECHNICAL DATA

ENGINE - Engine and crankcase - General specification (10.001 - D.40.A.10) 4

FUNCTIONAL DATA

ENGINE - Engine and crankcase - Dynamic description (10.001 - C.30.A.10) 6

SERVICE

ENGINE - Engine and crankcase - Remove (10.001 -F.10.A.10) 8

DIAGNOSTIC

ENGINE - Engine and crankcase - Troubleshooting (10.001 - G.40.A.10) 10

INDEX

The Chapter Index lists in alphabetical order all the types of information (called information units) that have been written in that Chapter for that function or system on the machine.

Index

ENGINE - 10

ENGINE

ENGINE - Engine and crankcase - Dynamic description (10.001 - C.30.A.10) 6

ENGINE - Engine and crankcase - General specification (10.001 - D.40.A.10) 4

ENGINE - Engine and crankcase - Remove (10.001 -F.10.A.10) 8

ENGINE - Engine and crankcase - Troubleshooting (10.001 - G.40.A.10) 10

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Contents

Engine - 10

[10.001] Engine and crankcase 10.1

[10.216] Fuel tanks 10.2

[10.202] Air cleaners and lines 10.3

[10.254] Intake and exhaust manifolds and muffler 10.4

[10.500] Selective Catalytic Reduction (SCR) exhaust treatment 10.5

[10.400] Engine cooling system 10.6

[10.414] Fan and drive 10.7

[10.310] Aftercooler 10.8

[10.304] Engine lubrication system 10.9

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Wiring harnesses - Electrical schematic sheet 14 – ENGINE CONTROL UNIT 3 (exhaust emission control)

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MAXXUM 115, MAXXUM 125, MAXXUM 135, MAXXUM 145, MAXXUM 150
MAXXUM CVT 115, MAXXUM CVT 125, MAXXUM CVT 135, MAXXUM CVT 145

Component	Connector	Description
A-084	**X-909**	Downstream NOx sensor controller
A-085	**X-887**	Upstream NOx sensor controller
A-087	**X-888**	Ammonia (NH3) sensor controller
A-088	**X-919**	DEF/AdBlue® supply module
A-095	**X-911**	Engine Control Unit (ECU)
B-070	**X-905**	SCR upstream exhaust gas temperature sensor
B-071	**X-906**	SCR downstream exhaust gas temperature sensor
B-072	**X-907**	DEF/AdBlue® Tank level and temperature sensor
B-073	-	Downstream NOx sensor
B-074	**X-886**	DOC upstream exhaust gas temperature sensor
B-075	-	Upstream NOx sensor
B-076	**X-889**	DEF/AdBlue® quality sensor
B-077	-	Ammonia (NH3) sensor
Y-045	**X-903**	Coolant control valve – DEF/AdBlue® heating
Y-046	**X-904**	DEF/AdBlue® dosing valve
Additional connectors: **X-026**, **X-901**, **X-901A**, **X-916**, **X-927**		

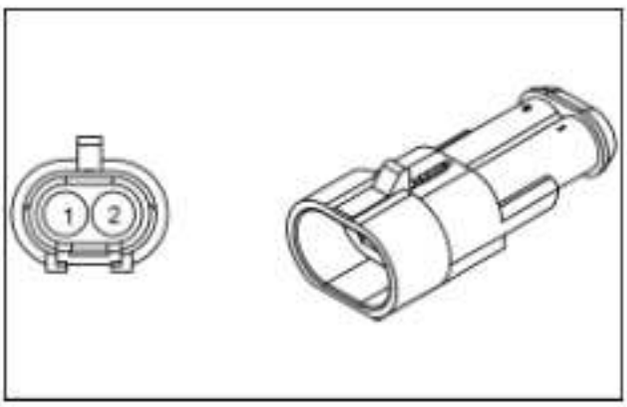
Wire color codes			
BK Black	GN Green	PK Pink	BL Blue
TN Light Brown	BR Brown	OR Orange	LG Light Green
RD Red	GY Grey	LB Light Blue	
WH White	YE Yellow	VT Violet	

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CONNECTOR X-084 - Front loader valve 1

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MAXXUM CVT 115, MAXXUM CVT 125, MAXXUM CVT 135, MAXXUM CVT 145

CONNECTOR X-084 - On harness 47707136			
PIN NUMBER	WIRE NUMBER	CIRCUIT REFERENCE	ELECTRICAL SCHEMATIC FRAME
1	CM-3274 (RD)	From X-084 to **X-024**	
2	CM-3275A (RD)	From X-084 to **X-024**	

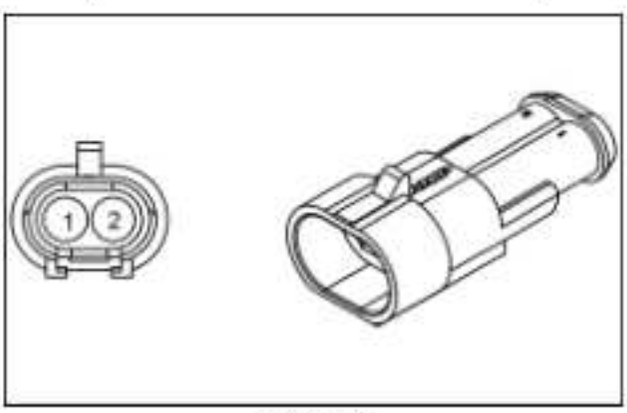


87697244 11

LESS Electro Hydraulic Remote (EHR) valves

MAXXUM 115, MAXXUM 125, MAXXUM 135, MAXXUM 145, MAXXUM 150

CONNECTOR X-084 - On harness 47774097			
PIN NUMBER	WIRE NUMBER	CIRCUIT REFERENCE	ELECTRICAL SCHEMATIC FRAME
1	CM-3274 (RD)	From X-084 to **X-024**	
2	CM-3275 (RD)	From X-084 to **X-024**	



87697244 12

MAXXUM 115 Multicontroller, MAXXUM 125 Multicontroller, MAXXUM 135 Multicontroller, MAXXUM 145 Multicontroller, MAXXUM 150 Multicontroller
MAXXUM CVT 115, MAXXUM CVT 125, MAXXUM CVT 135, MAXXUM CVT 145

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14909-SWCD missing (VA)

MAXXUM® 115	NA
MAXXUM® 125	NA
MAXXUM® 135	NA
MAXXUM® 145	NA
MAXXUM® 150	NA

Control Module : ICU

NOTE: *When the cause of the error code has been rectified, clear the error code and test the system for normal operation.*

Possible failure modes:

1. Faulty connector
2. Faulty wire harness
3. CAN BUS interference
4. Faulty color display monitor

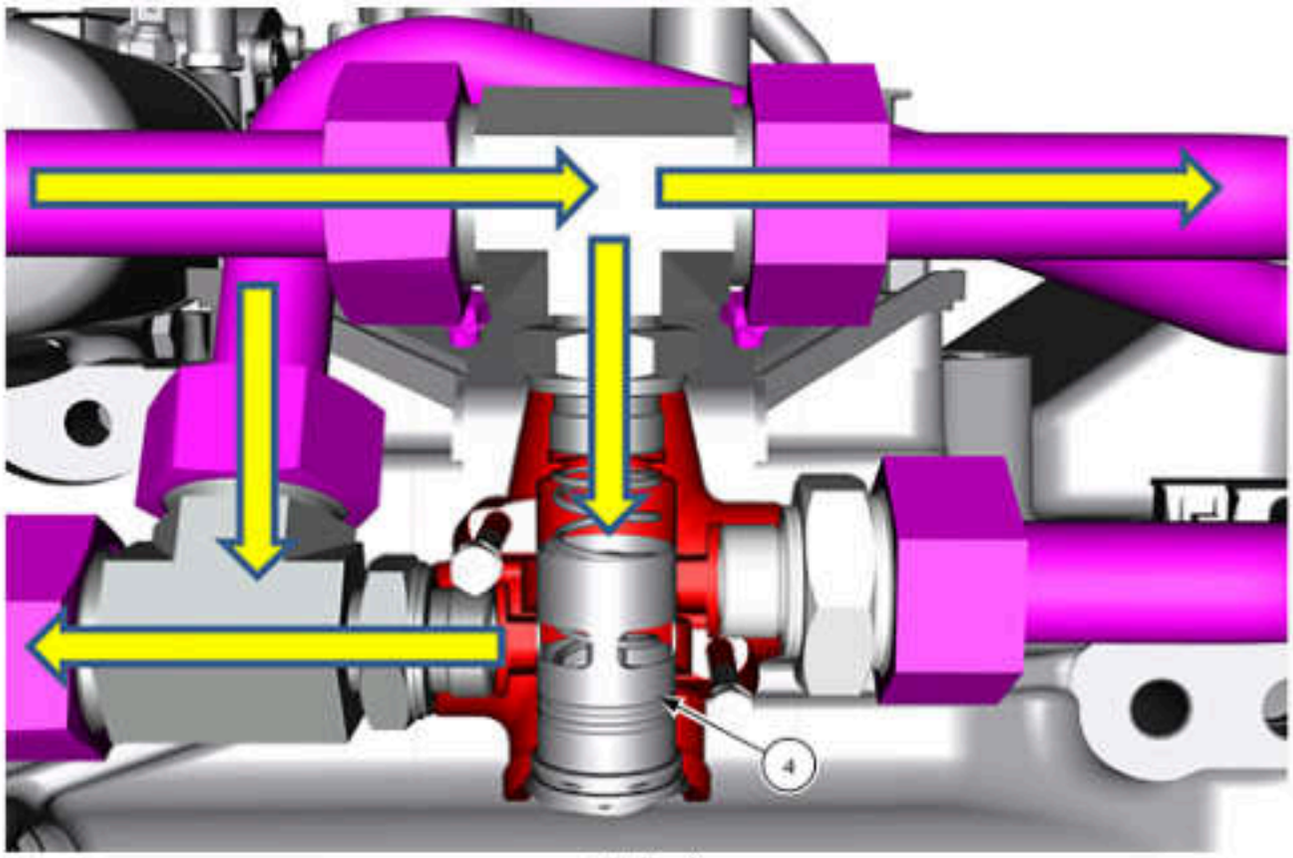
Solution:

1. Before proceeding clear the error code with the approved diagnostic equipment. Run the tractor under normal conditions and retest.
   A. If the error code is not indicated, check that the system is operating correctly.
   B. If the error code is indicated, continue to Step **2**.
2. Check for other error codes displayed.
   A. If other error codes are displayed, continue to these tests.
   B. If no other error codes are displayed, continue to Step **3**.
3. Check all power supplies and grounds to the color display monitor.
   A. If a fault is indicated, repair or replace the wire harness as required.
   B. If no faults are indicated, continue to Step **4**.
4. Check the Tractor Electronic Control Unit (TECU) connector **X-616** and the color display monitor connector **X-485**. Ensure the connectors are connected, not damaged, the pins are in the correct position and that the fit is tight.
   A. If a fault is indicated, repair or replace as required.
   B. If the connectors are okay, continue to Step **5**.
5. Check for an open circuit on the CAN BUS.
   Disconnect connector **X-485**. Check between connector:
   X-030 pin H (YE) (CAN High) and **X-485** pin 5 (YE)
   X-030 pin J (GN) (CAN Low) and **X-485** pin 6 (GN)
   A. If an open circuit is indicated, repair or replace the wire harness as required.
   B. If an open circuit not indicated, continue to Step **6**.
6. Check for open circuit on the CAN BUS.
   Disconnect connector **X-616**. Check between connector:
   X-616 pin 1 (YE) (CAN High) and **X-485** pin 5 (YE)
   X-616 pin 2 (GN) (CAN Low) and **X-485** pin 6 (GN)
   A. If an open circuit is indicated, repair or replace the wire harness as required.
   B. If an open circuit not indicated, remove and replace the color display monitor.

Wiring harnesses - Electrical schematic sheet 55 – CAN bus 4 (ISO bus) (55.100.DP-C.20.E.55)

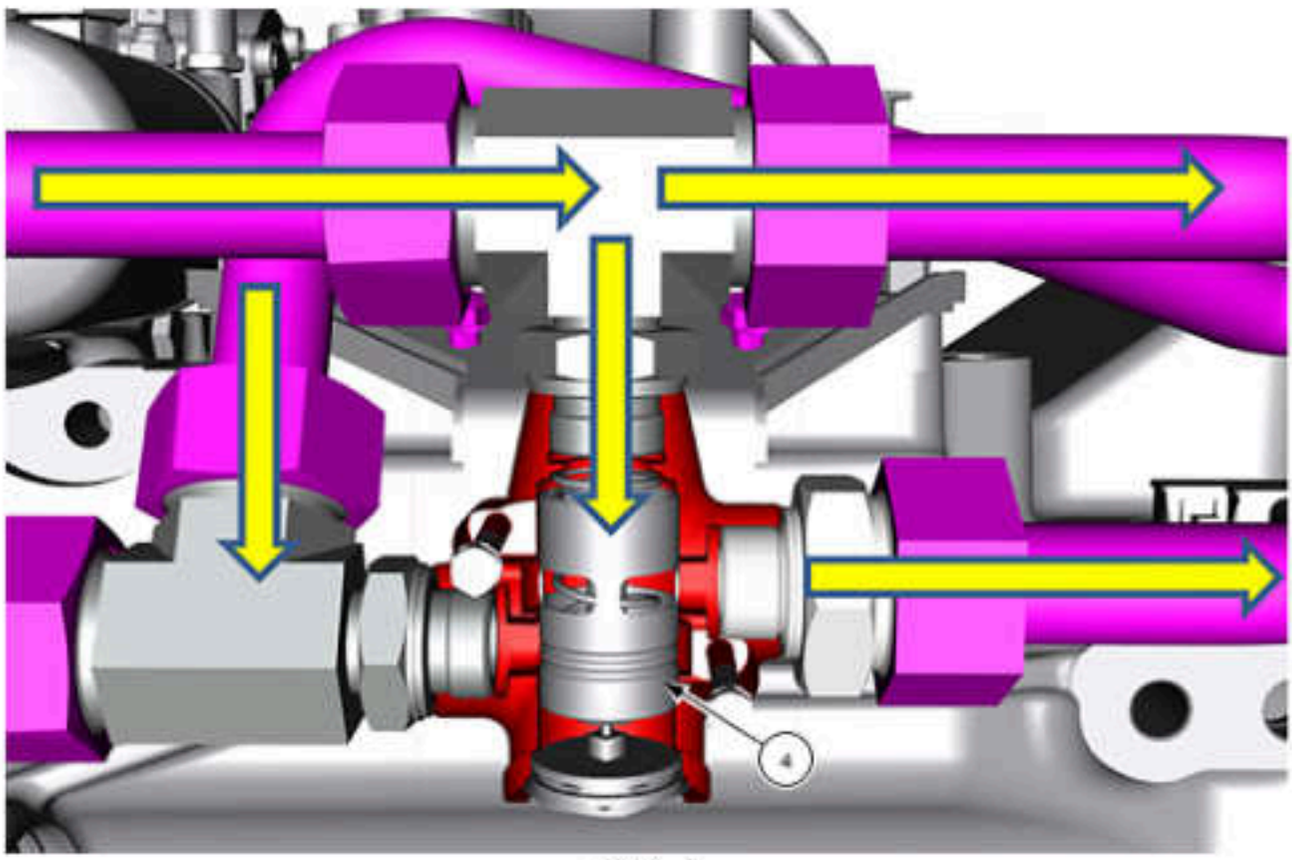
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Oil temperature regulator valve



SS14M450 3

Position of the oil temperature regulator valve at an oil temperature below 45 °C (113 °F)



SS14M451 4

Position of the oil temperature regulator valve at an oil temperature higher than 60 °C (140 °F)

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HITCHES, DRAWBARS, AND IMPLEMENT COUPLINGS - 37
FRAMES AND BALLASTING - 39
STEERING - 41
WHEELS - 44
CAB CLIMATE CONTROL - 50

MAXXUM® 115 / MAXXUM® 115 Multicontroller / MAXXUM® CVT 115
MAXXUM® 125 / MAXXUM® 125 Multicontroller / MAXXUM® CVT 125
MAXXUM® 135 / MAXXUM® 135 Multicontroller / MAXXUM® CVT 135
MAXXUM® 145 / MAXXUM® 145 Multicontroller / MAXXUM® CVT 145
MAXXUM® 150 / MAXXUM® 150 Multicontroller

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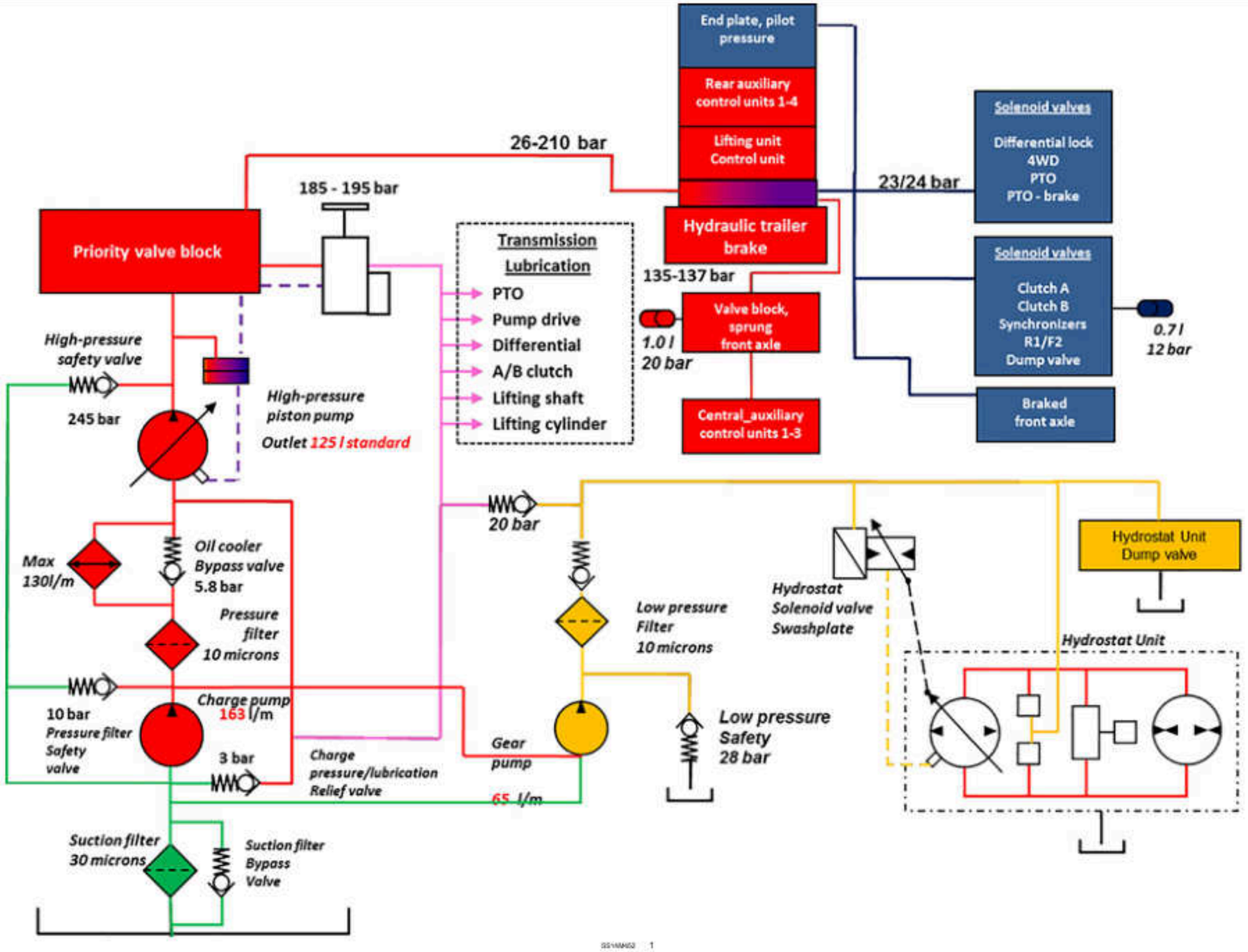
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