Service Manual

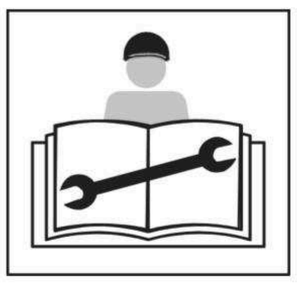
Models
3507, 3508, 3509, 3512, 3513, 4007, 4008, 4009, 4012, 4013

P/N - 3121852

Revised
April 20, 2007

CE

NQA ISO9001 REGISTERED COMPANY UKAS QUALITY MANAGEMENT 015



MidWestTech | JLG 3507, 3508, 3509, 3512, 3513, 4007, 4008, 4009, 4012, 4013 Telehandler Service Manual | Publication 3121852

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Section 1
Safety Practices

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2.4 FLUIDS, LUBRICANTS AND CAPACITIES

Engine Crankcase Oil	
Capacity w/Filter Change	8,5 liters (9 quarts)
Oil Type	15W-40 CE
Fuel Tank	
Capacity	140 liters (37 gallons)
Type of Fuel	U.S.A. #2 Diesel
Cooling System	
System Capacity	19,7 liters (20.8 quarts)
Type of Fluid	50/50 mix of ethylene glycol & water
Axles	
Differential Housing Capacity - Front	7,3 liters (7.8 quarts)
Wheel End Capacity	1,4 liters (1.5 quarts)
Type of Fluid	Mobilfluid 424® (ISO 46)
Hydraulic System	
System Capacity	246 liters (65 gallons)
Reservoir Capacity to FULL Mark	160 liters (42.3 gallons)
Type of Fluid	Mobilfluid 424® (ISO 46)

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5.3.6 Axle Assembly and Drive Shaft Troubleshooting

Problem	Cause	Remedy
1. Excessive axle noise while driving.	1. Oil level too low.	1. Fill oil to correct level. Refer to Section 2.4, "Fluids, Lubricants and Capacities."
	2. Axle and/or wheel end housings filled with incorrect oil or oil level low.	2. Drain axle and/or wheel end housings and fill to correct level with Mobilfluid 424® ISO 46. Refer to Section 2.4, "Fluids, Lubricants and Capacities."
	3. Incorrect alignment of ring and pinion gears.	3. Correct alignment by adding or removing shims as needed.
	4. Incorrect pinion (input) shaft bearing preload.	4. Correct bearing preload by adding or removing shims as needed.
	5. Worn or damaged bearings.	5. Replace bearings as needed.
	6. Worn or broken gear teeth.	6. Replace gears as needed.
	7. Contamination in the axle.	7. Drain axle and/or wheel end housings and fill to correct level with Mobilfluid 424® ISO 46. Refer to Section 2.4, "Fluids, Lubricants and Capacities."
	8. Axle housing damaged.	8. Replace damaged parts.
2. Intermittent noise when traveling.	1. Universal joint(s) worn or damaged.	1. Repair or replace universal joints as needed.
	2. Differential ring and/or pinion gears damaged.	2. Determine cause and repair as needed.
3. Vibration or intermittent noise when traveling.	1. Drive shaft universal joint assembly(ies) incorrectly tightened.	1. Tighten capscrews to correct torque.
	2. Drive shaft universal joint(s) worn or damaged.	2. Repair or replace universal joints as needed.
	3. Drive shaft(s) damaged/ unbalanced.	3. Replace drive shaft(s) as needed.

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