

**Ing.- und Sachverständigenbüro  
Graduated Engineer Martin Glomb**

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<b>Inspection report</b>		Date: 19.09.2011
<b>Brand / Type:</b> Terex Demag AC 80-2	<b>Year of manufacture:</b> 2003	
<b>1. Crane Datas</b>		
km	129.590	
hours	6.748	
Serial No.	81565	
Chassis No.	WMG4213483Z000565	
max. lifting capacity in t	80	
main boom	50m	
extension	17,6m	
hooks	1-sheaved EH 20t, 3-sheaved EH 50t, single line hook block	
counterweight	18t	
winches	1	
additional equipment upper		
drive	8x8x8	
tyres	16.00 R25	
additional equipment chassis	Telma eddy-current brake, central lubrication, small trailer coupling	
TÜV / SP		
Testing by authority	Last test in June 2011	
additional remarks		
<b>2. Documents</b>		
car licence		
crane book		
load charts		
operating manual		
maintenance/ lub manual		
spare parts book		
electric / hydraulic drawings		
additional remarks	All documents should be available in the other yard of the company in French language.	

The expertise is made as exactly as possible according the condition at the inspection area and the assistance of the crane driver. Our liability is excluded from all claims of any nature, especially for any defects which have not been found or any defects after the inspection.

<b>Carrier</b>	
<b>1. Engine</b>	Remarks:
1.1 engine type	6-cylinder Daimler Chrysler OM 501 LA
1.2 output / certified	315 kw (428 hp) certified in compliance with EURO MOT 2
1.3 sound / emission of engine	o.k.
1.4 running performance	o.k. during the test drive
1.5 oil condition of engine	o.k.
1.6 air filter	o.k.
1.7 exhaust system	o.k.
1.8 cylinder seals	o.k.
1.9 other seals	the engine is oiled in the lower range, probably caused by leaking seal of the oil sump
1.10 turbo charger	o.k.
1.11 dynamo machine	o.k.
1.12 starter	o.k.
<b>2. Cooling</b>	
2.1 condition of cooling	o.k.
2.2 water circulation	o.k.
2.3 fan	o.k.
<b>3. Oil cooler</b>	
3.1 condition of cooling	o.k.
3.2 oil circulation	o.k.
3.3 fan	o.k.
<b>4 Fuel system</b>	
4.1 tank	o.k.
4.2 diesel pipe	o.k.
<b>5 Electric</b>	
5.1 cables	o.k.
5.2 switches and control system	the glass of the level control is cracked at the left side
5.3 battery	o.k.
5.4 central electric	o.k.
<b>6 Hydraulic system</b>	
6.1 tubes and hoses	some leakages
6.2 pumps	o.k.
6.3 valves	o.k.
6.4 rotaring joint	one screwing is leaking
<b>7 Gearbox</b>	
<b>7.1 Driving gearbox</b>	
7.1.1 condition	the gearbox is oiled, looks like the reason is the low gearbox seal, but could be also caused by screwing
7.1.2 function	o.k., during 15 km test drive the gear box was working without any problem, forward and reverse working o.k.
<b>7.2 transfer gearbox</b>	
7.2.1 condition	a little bit rusty
7.2.2 function	o.k., working without a problem during the test drive, 8x6 also as 8x8

<b>8 Cardan shafts</b>	
8.1 condition	o.k.
8.2 function	o.k., working without a problem during the test drive, no abnormally noise
<b>9 Axles</b>	
9.1 condition	- axle 1 is oiled from the engine and gearbox above - 2 leakages at the abs sensors of axle 2 - oil at the ventilation of some axles
9.2 function	o.k., working without a problem during the test drive, 8x6 also as 8x8, no abnormally noise
9.3 brakes	- working in good condition during the test drive - all brake shoes are nearly new with more than 10mm profile
<b>10 Suspension</b>	
10.1 cylinders	5 rubber membrane are damaged, 1 cylinder is leaking
10.2 function	o.k., working without a problem during the test drive
10.3 axle struts	1 seal is damaged at the top of axle 1
<b>11 Pneumatic system</b>	
11.1 air reservoir	o.k.
11.2 air compressor	o.k.
11.3 function	o.k.
<b>12 Steering</b>	
12.1 steering gearbox	o.k.
12.2 function	o.k., working in good condition during the test drive
12.3 hydraulic hoses	o.k.
<b>13 Frame</b>	
13.1 painting	o.k.
13.2 construction / form	o.k.
13.3 welding	o.k.
<b>14 Outrigger</b>	
14.1 frame	a little bit rusty
14.2 support / horizontal cylinder	3 support cylinder with notches in the surface of the cylinder rod
14.3 support plates /	1 original was missing and replaced by another one
14.4 function	o.k.
14.5 pipes / valves	rusty pipes, one valve or screwing is leaking
<b>15 Tires</b>	
15.1 tread depth left [mm]	25 / 10 / 12 / 26
15.2 tread depth right [mm]	23 / 15 / 9 / 27
15.3 condition	4 small scratches at the outside
<b>16 Cab</b>	
16.1 window / mirror	1 mirror is cracked
16.2 condition inside	a little bit rusty at the bottom of the entrance
16.3 condition outside	some cracks above the lights
16.4 operating switch	o.k.
16.5 speedometer / hourmeter	the km counter of the speedometer was not in function, the display for speed was working
16.6 lighting	o.k.
<b>17 Covering / Boxes</b>	
17.1 construction / form	rusty at all outriggers, the rear box is a little bit bent
17.2 function	some open / close function are rough-running

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<b>Test drive</b>	The test drive was made in the area of the company nearby Paris. The drive was done over 15 km, some little mountains and the motorway was driven during this way.
1. gearbox forward	o.k.
2. gearbox reverse	o.k.
3. drive 8x6	o.k.
4. drive 8x8	o.k.
5. steering 8x6	o.k.
6. steering 8x8	o.k.
7. brakes	o.k.
8. abnormally noises	o.k.
9. engine performance	o.k.
10. summery	all function were o.k. during the test drive

<b>Superstructure</b>	
<b>1 Frame</b>	
1.1 painting	o.k.
1.2 construction / form	o.k.
1.3 welding	o.k.
<b>2 Boom</b>	
2.1 painting	o.k.
2.2 construction / form	o.k.
2.3 welding	o.k.
<b>3 Jib extension</b>	
3.1 painting	o.k.
3.2 construction / form	one sheave has 2 little cracks, one bearing wheel is deformed
3.3 welding	o.k.
<b>4 Slewing ring</b>	
4.1 condition	o.k.
4.2 function	o.k.
4.3 brake	o.k.
4.4 bearing shake	0,25mm
<b>5 Hydraulic</b>	
5.1 luffing cylinder	o.k.
5.2 tele cylinder	o.k.
5.3 hoist engine	o.k.
5.4 slewing engine	o.k.
5.5 pumps	o.k.
5.6 valves	o.k.
5.7 hoses and screwings	o.k.
<b>6 Hoist</b>	
6.1 condition hoist	o.k.
6.2 condition rope	o.k.
6.3 function	o.k.
<b>7 counterweight</b>	
7.1 painting	o.k.
7.2 construction / form	o.k.
<b>8 hook blocks</b>	
8.1 single line hook	rusty
8.2 hook 1-sheaved	o.k.
8.3 hook 3-sheaved	o.k.
<b>9 Cab</b>	
9.1 window / mirror	the up window and the mirror is cracked
9.2 condition inside /outside	o.k.
9.3 hourmeter	o.k.
9.4 lighting	o.k.
<b>10 Covering / Boxes</b>	
10.1 construction / form	o.k.
10.2 function	o.k.

<b>11 Electric</b>	
11.1 cables and reels	o.k.
11.2 switches / control system	o.k.
11.3 LMI	o.k.
11.4 lift limit switch	o.k.

<b>Test work function</b>	
1. boom extend / retract and bolt	o.k.
2. luffing of the boom	o.k.
3. turning of upper and brake	o.k.
4. turning the hoist / limit switch	o.k.
5. counterweight rigging	o.k.
6. mounting / dismounting of jib	the deformed bearing wheel causes a tight back mounting of the jib
7. outrigger setup	o.k.
8. summery	all function were o.k. during the test