

Reg. No. 98/07367/07 * VAT Reg.No. 4490189489



Towing Device Test Report

1. DOCUMENT INFORMATION

Description:	Coupler Test Result
Document Number:	IM-12013-01.0
Filename:	IM-12013-01.0 KMDB (5t coupler)
Date of Issue:	14 June 2012
Number of pages	5

2. CLIENT INFORMATION

Company:	KMDB	
Contact Person:	Mr. Flip de Klerk	
Address:	7 Second Street, Vorsterskroon Ex 3, Nigel	
Client Specimen Reference:	KMDB (5t Coupler)	

3. TEST DETAILS

IM Specimen Reference:	12013-01.0					
Laboratory:	Investmech Test Laboratories					
Laboratory Address:	Factory # 2, 10B Kruger Avenue, Lyttelton Manor					
Date of test:	Start:15/05/2012 Finished:21/05/2012					
Test Operator:	Johan van Zyl					
Test Specification:	Section 4.3.2 of EC 94-20					
Towing Vehicle Mass:	10,000kg	Rated Vertical Load on Tow Bar:	0 kg			
Towed Vehicle Mass:	5,000 kg	Load application angle – α:	0°			
Dynamic Test load:	19.62 kN	Test Frequency:	6.3 Hz			
Bolts Used:	Class 8.8	Bolt Torque:	M12	69 Nm		
			M16	171 Nm		
Test Result:	The towing device completed 2,000,000 cycles without any visible signs of failure.					

This test report relates only to the sample tested and does not imply approval by Investmech (Pty)

Ltd of the quality and/or performance of similiar parts that has not been tested.

APPROVAL

Responsibility	Name	Designation	Signature	Date
Checked by:	San-Mari Rautenbach	Engineering Manager	Suiterbed	14 June 2012
Approved by:	Dr M. Heyns Pr.Eng.	Managing Director	p.p. Raiters	14 June 2012



5. TEST SPECIMEN IDENTIFICATION

IM Specimen Reference: 12013-01.0

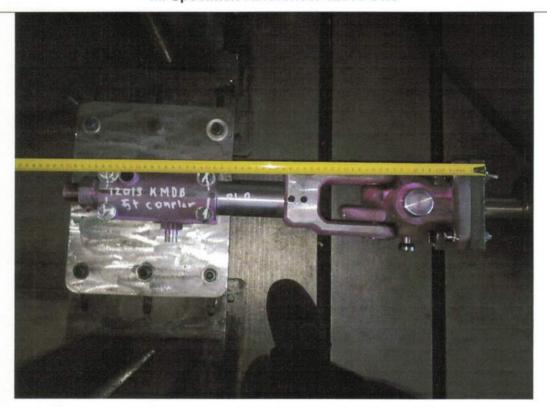


Figure 1: Overall view of test specimen with longitudinal dimensions



Figure 2: Close up view indicating the horizontal dimension



Figure 3: Close up view indicating the critical dimension of the test specimen



Figure 4: Close up view indicating the critical dimension of test specimen

6. TEST SETUP

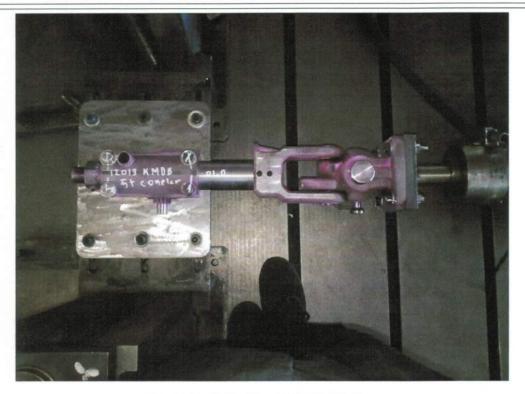


Figure 5: Top view of the test setup



Figure 6: Side view of the test setup

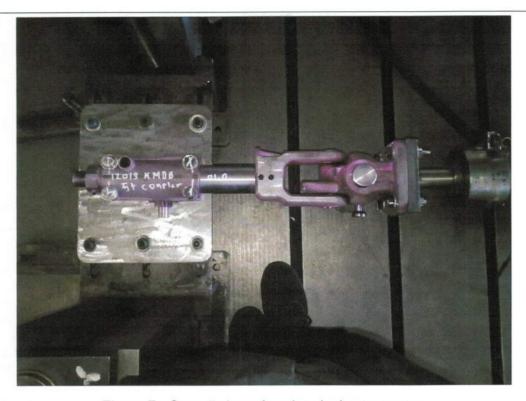


Figure 7: Overall view of towing device test setup



Figure 8: Mounting detail of the towing device test setup

Comment:

A 5 ton Coupler was tested by applying a dynamic load of 19.62 kN via a servo hydraulic actuator. The Coupler completed 2,000,000 cycles without any visible signs of failure.