

ROTech

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Test Report

Our Ref: RKP Number 69651/1 Issue 1 Date 21.03.2008 Page 1 of 7

A/C No: K004

Tested For:-

Kee Safety Ltd
1 Boulton Road
Reading
Berks
RG2 0NH

LOAD TESTING OF 265-7 CASTINGS

RELEVANT INFORMATION

Description(s): Castings 265-7 (5 off)
Submitted By: Mr T Smith
Purchase Order No: STD 407131
Date Received: 15/02/2008

EXPERIMENTAL PROCEDURE

The castings were tested with the grub screw locations at the 6 o/c position.
The castings were secured to a support fixture by means of 1/2" UNC bolts
The load was transmitted into the castings via a 44mm dia. solid steel bar, the loading point being 100mm from the centre of the bolt holes


RESULTS

PTO

REPORT COMPILED BY


R.K.PRATT

REPORT APPROVED BY


R.K.PRATT
Technologist Supervisor

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Load Tests

Fulcrum position 100 mm from the bolt hole centre line

Deflection (mm)	Casting No.1 (kN)	Casting No.2 (kN)	Casting No.3 (kN)	Casting No.4 (kN)	Casting No.5 (kN)
0	0.00	0.00	0.00	0.00	0.00
1	1.35	1.50	1.45	3.00	2.65
2	3.40	3.15	2.35	5.55	4.75
3	6.35	5.35	3.75	8.00	7.45
4	9.75	7.50	5.30	10.75	10.05
5	13.00	9.80	6.75	13.15	12.50
6	15.80	12.25	8.30	15.50	14.95
7	18.20	14.50	10.05	17.40	17.05
8	20.55	16.55	11.90	19.05	18.95
9	22.60	18.30	13.70	20.50	20.50
10	24.20	20.00	15.40	21.80	22.10
11	25.50	21.25	17.20	22.85	24.20
12	26.60	22.50	18.55	24.15	25.05
13	27.55	23.45	19.70	25.00	25.85
14	28.40	24.25	20.85	25.85	26.55
15	29.40	24.95	21.90	26.60	27.25
16	30.15	25.60	22.70	27.35	27.90
17	30.85	26.25	23.45	28.05	28.55
18	31.50	26.90	24.10	28.70	29.15
19	32.15	27.50	24.75	29.30	29.75
20	32.80	28.05	25.135	29.90	30.25
21	33.30	29.00	26.15	30.40	30.80
22	33.80	29.50	26.75	31.00	31.35
23	34.30	30.00	27.35	31.20	31.85
24		30.45	27.90	30.7	32.30
25		30.45	28.45	31.05	32.75
26		30.55	29.05	31.45	33.55
27		30.95	29.60	31.95	
28		31.10	30.15	32.45	
29			30.55	33.20	
30				33.35	
31				33.40	
32					
33					
34					
35					

CONCLUSION

Evaluation of the test data revealed maximum bending moments of

Casting No: 1. 3.430 kNm

Casting No: 2. 3.110 kNm

Casting No: 3. 3.055 kNm

Casting No: 4. 3.340 kNm

Casting No: 5. 3.355 kNm

End of report