

**ATTAR TEST REPORT NUMBER 10/3855.2**

3 March 2010

**Total Pages: 4****MATERIALS TESTING – Tensile Test**

Job No: M10/3855

<b>Prepared for:</b>	C.R. Laurence Australia Pty Ltd 23 Jellico Drive SCORESBY VIC 3179		
<b>Attention:</b>	Mr Ron Bremner		
<b>Background:</b>	Testing holding capacity of 8" Pump Sucker Lift in shear.		
<b>Test Protocol:</b>	Pump sucker lifts were set up in Instron tensile test machine using a specially designed rig to hold pump sucker lift and a glass plate, load was then applied to handle by moving the cross head at a constant rate of 50.8 mm/min, Figure 1.		
<b>Test Site:</b>	ATTAR, Unit 12, 134 Springvale Road, Springvale.		
<b>Test Date:</b>	25 February 2010		
<b>Temperature:</b>	23°C		
<b>Test Specimens &amp; Size</b>	S338 8" Pump Sucker Lift		
<b>Quantity:</b>	5 off		
<b>Sampling:</b>	Conducted by client.		
<b>Test Equipment:</b>	Instron Tensile test machine with Instron Load cell SN:UK539 with a ACS signal conditioning unit Model AC 9600 – SN:960115, accuracy of unit checked using calibrated Grade A STC load cell SN:W10149 with ACS signal conditioner unit Model AC 2500 SN:250272 calibrated 15/04/2009. Output from AC 9600 was graphed and recorded using a computer via 16 bit analogue to digital converter sampling at 100 Hertz.		
<b>Specimen preparation:</b>	Pump sucker lifts were tested as received, glass plate was wiped with rag saturated with methylated spirits then allowed to dry before each test.		
<b>Test Standard:</b>	N/A		
<b>RESULTS:</b> (See Figures 2 - 6 for graphs)	<b>Cross head Speed</b>	<b>Initial Slip Load* (kN)</b>	<b>Peak Load (kN)</b>
1. - Serial No. 352212	50.8 mm/min	1.5	2.18
2. - Serial No. 352213	50.8 mm/min	1.6	2.14
3. - Serial No. 352214	50.8 mm/min	1.6	2.26
4. - Serial No. 352215	50.8 mm/min	1.59	2.41
5. - Serial No. 352216	50.8 mm/min	1.6	2.27
<b>Mean Result:</b>		<b>1.58 kN (161 kg)</b>	<b>2.25 kN (230 kg)</b>

\*The initial slip load was recorded visually on the signal conditioning unit during the test and is approximate only. These results apply only to the specimens tested.

**ATTAR**

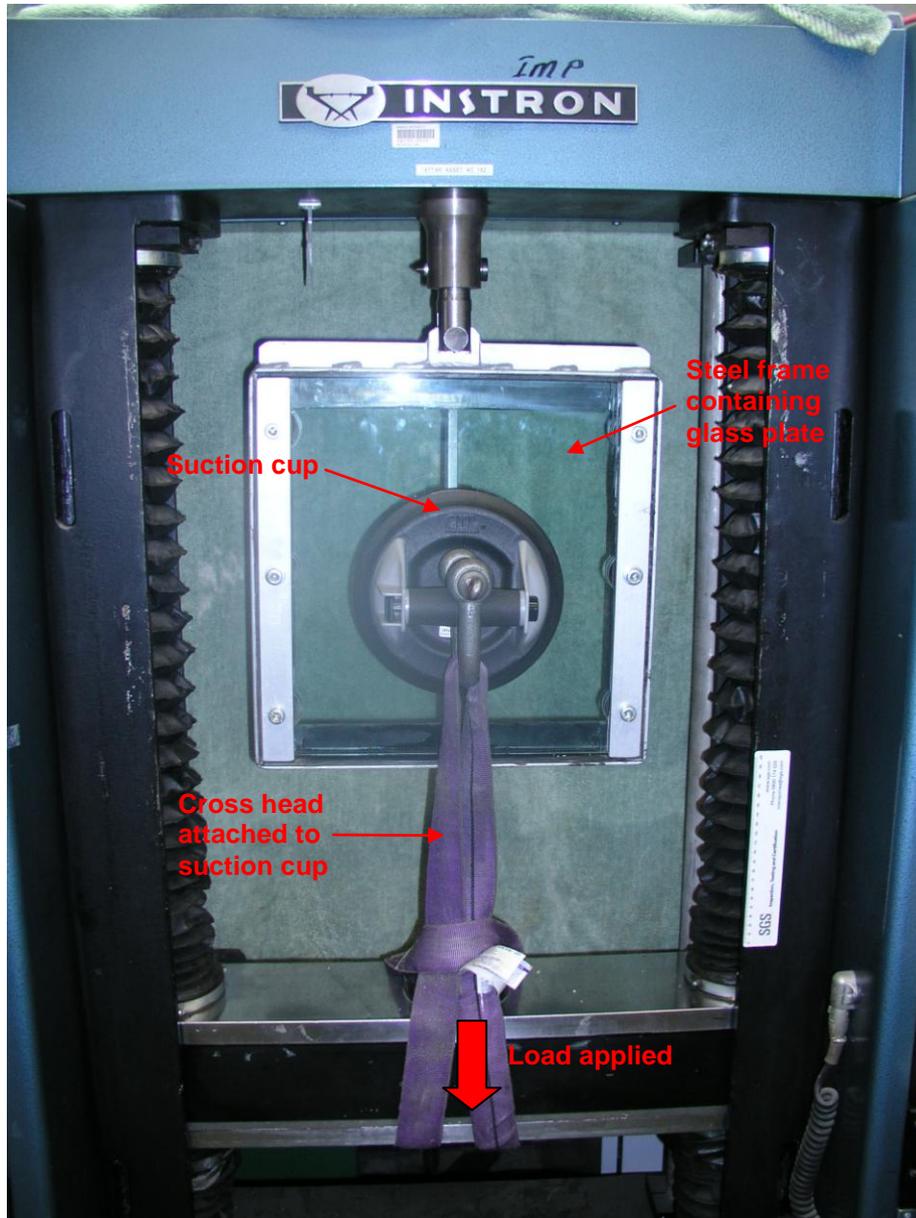
Marcus Braché  
Senior Engineering Technician

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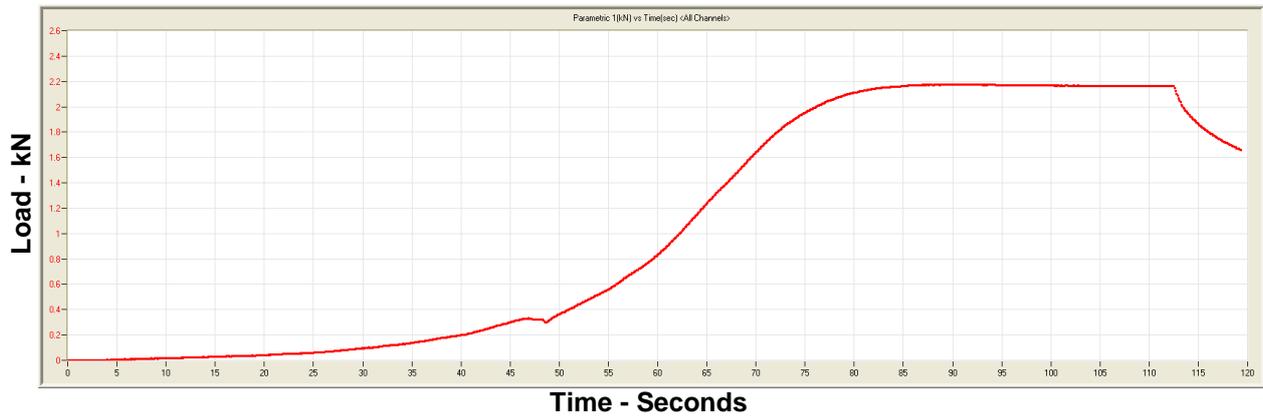
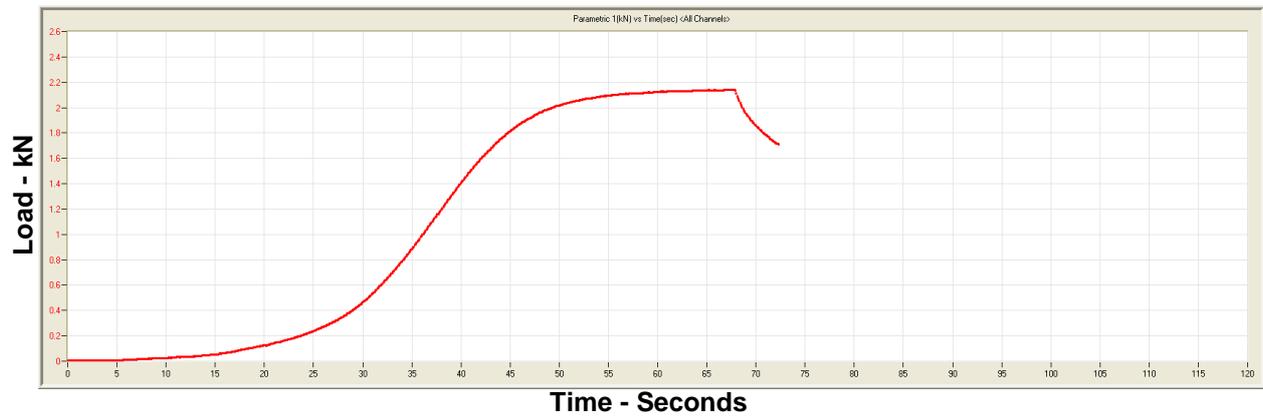
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**Figure 1.** Set up of shear test in Instron Machine

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**Figure 2.** Specimen No 1 - Serial No. 352212

**Figure 3.** Specimen No 2 - Serial No. 352213

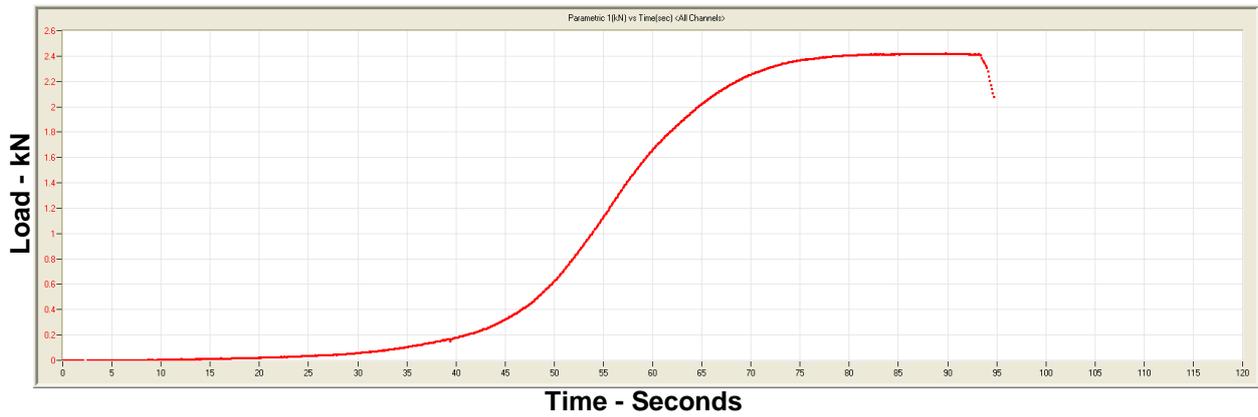
**Figure 4.** Specimen No 3 - Serial No. 352214

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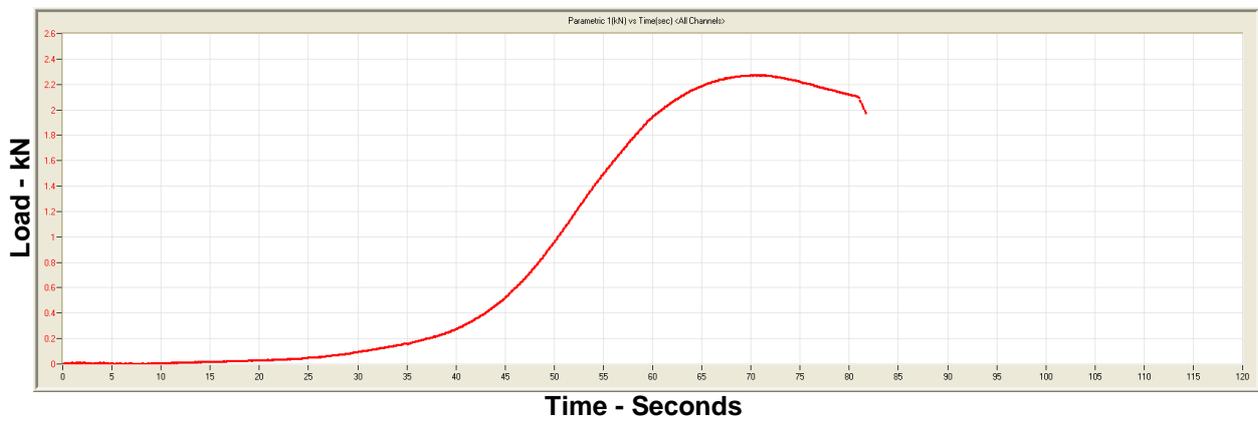
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**Figure 5.** Specimen No 4 - Serial No. 352215



**Figure 6.** Specimen No 5 - Serial No. 352216

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