



Return address: P.O. box 6235, 5600 HE Eindhoven, The Netherlands

Beele Engineering BV
To the attn. of Mr. J.A. Beele
Beunkdijk 11
7122 NZ Aalten

De Rondom 1
P.O. Box 6235
5600 HE Eindhoven
The Netherlands

Subject
Report Petrol/Diesel tests

Date
December 20, 2007

Our reference
TQS-RAP-07-3192/ggc

E-mail
Ben.vanbaarle@quality.tno.nl

Direct dialling
+31 40 265 03 51

Direct fax
+31 40 265 03 02

Chamber of Commerce
Veluwe and Twente
08153361

Projectnummer
E07.0145

Dear Mr. Beele,

Herewith we sent you a brief report concerning the results of the petrol and diesel resistance of FIWA.

Introduction

Beele Engineering ordered TNO Quality Services BV to control the petrol and diesel resistance of FIWA sealant.

Investigation

To control the petrol (aromatic) and diesel (paraffinic) resistance, the FIWA sealant was cured for three weeks. After that period the FIWA was immersed in the swelling liquid for 30 days. In that period the swelling was measured several times. The results were summarized in the table 1. There were no cracks or surface attacks or softening visible on the swollen samples.

Next to it the samples were dried at room temperature, after four days the samples showed a shrinkage to normal dimensions.

Table 1

| | Petrol | Diesel |
|---------|--------------|--------------|
| Time | Swelling (%) | Swelling (%) |
| 1 day | 18 | 5 |
| 6 days | 51 | 12 |
| 14 days | 84 | 18 |
| 30 days | 92 | 27 |
| drying | Drying | Drying |
| 4 days | <5 | <15 |
| | | |

TQS works according to The Standard Conditions for reaserch instruction given to TNO.
The Standard Conditions will be sent on request.



WWW.CABLEJOINTS.CO.UK
THORNE & DERRICK UK
TEL 0044 191 490 1547 FAX 0044 477 5371
TEL 0044 117 977 4647 FAX 0044 977 5582
WWW.THORNEANDDERRICK.CO.UK



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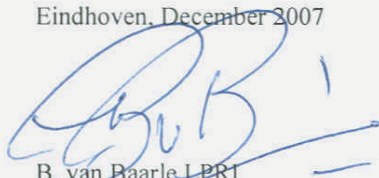
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Conclusion

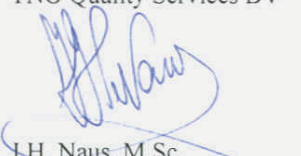
The swelling test in petrol and diesel with the FIWA sealant showed that after 30 days the surface was not destroyed by the swelling liquids.

Eindhoven, December 2007



B. van Baarle LPRI
Project manager

TNO Quality Services BV



J.H. Naus, M.Sc.
Authorisation



WWW.CABLEJOINTS.CO.UK
THORNE & DERRICK UK
TEL 0044 191 490 1547 FAX 0044 477 5371
TEL 0044 117 977 4647 FAX 0044 977 5582
WWW.THORNEANDDERRICK.CO.UK