

INTERMODAL MATERIÉL
AND
NAUTICAL/NUCLEAR ANALYSIS
IMANNA
LABORATORY INC.

CERTIFICATION TEST REPORT

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TEST REPORT
19812-1
SAE J2006
HIGH TEMPERATURE TEST
OF
"MARINE WET EXHAUST HOSE"
FOR
SHORE AUTO RUBBER

CUSTOMER:

Shore Auto Rubber Exports Pvt. Ltd.
Gat No7, Post - Chimbli, Taluka - Khed
Pune, Maharashtra - 410 501 (INDIA)

**MANUFACTURER
OF TEST ARTICLE:** Shore Auto Rubber

DATE: Aug. 20, 2013

REPORT NO.: 19812-1
IMANNA JOB NO.: 19812
CUSTOMER P.O. NO.: e-mail(K.Keswani)
CONTRACT: N/A
PAGES IN REPORT: 3

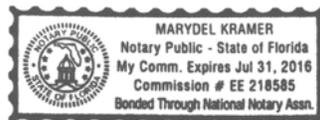
STATE OF FLORIDA

ROBERT L. WHITE, being duly sworn, deposes and says: The information contained in this report is the result of complete and carefully conducted tests and is to the best of his knowledge true and correct in all respects.

Robert L. White

SUBSCRIBED and sworn to before me this 20th day of August, 2013

Marydel Kramer



Imanna shall have no liability for damages of any kind to person or property, including special or consequential damages resulting from Imanna's providing the service covered by the report.

IMANNA LABORATORY, Inc.
TEST BY
Robert White
PROJ. ENGINEER

1. TEST ARTICLE

One length of 8" ID "Marine Wet Exhaust Hose", manufactured in India, was received for test from Shore Auto Rubber Exports Pvt Ltd..



Figure 1: view of tested hose

2. PART NUMBER

The sample was labeled:

Marine Wet Exhaust Hose SAE J2006-R3

3. REQUIREMENTS

The requirements for this effort are to perform the tests necessary to confirm compliance of the hose with the High Temperature Test provisions of SAE J2006 Marine Exhaust Hose Standard .

4. PROCEDURES

The procedure employed in conducting the test is SAE J2006 and followed the following guidelines.

- High Temperature Test SAE J2006

5. RESULTS

The test results indicate that the tested hose sample meets the SAE J2006 High Temperature Test requirements.

5.1 HIGH TEMPERATURE TEST

The sample was subjected to 2 minutes of exhaust gas flow. The exhaust gas temperature was measured to be 580°C ±15°C (1100°F±22°F) at the inlet of the test

section of hose and measured at the center of the opening. The exhaust gas velocity during the test was maintained at 1500 m/min (4900 ft/min) plus 100, minus 0. The hose was allowed to cool to room temperature following the high heat exposure and was then subjected to an internal pressure test to 75 kPa (10 PSI) for 1 minute per ASTM D380/ISO 1402. No blistering was evident on the interior of the sample following the test and no leakage was observed from the tested sample during the post test pressure test.

6. OBSERVATIONS AND COMMENTS

These results indicate that the hose meets the SAE J2006 R1 High Temperature Test requirements as received and as tested.

The results presented herein apply only to the test specimen as prepared and as tested on the date reported. All equipment used in the performance of these tests was calibrated to standards traceable to the N.I.S.T and/or verified at the time of the test using internationally recognized methods to validate the accuracy and repeatability of the values recorded or collected during the tests.



Figure 2: interior of hose following test