



BUREAU OF AUTOMOTIVE REPAIR
10240 SYSTEMS PARKWAY, SACRAMENTO, CA 95827
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June 11, 1997

Al Marchesi
TELEDYNE ANALYTICAL INSTRUMENTS
16830 Chestnut Street
City of Industry, CA 91749-1580

Dear Mr. Marchesi:

Congratulations! Teledyne Analytical Instruments's Oxygen Sensor Model Numbers R17A, R21A and R22A is granted Provisional Component Approval based on tests conducted in accordance with the applicable sections of the BAR-90 Test Analyzer System Specifications, dated April 1996, and the BAR-97 Emissions Inspection System Specifications, dated May 1996 with addenda through March 1997.

Provisional Component Approval means that the component has met the performance requirements allowing it to be considered for use in a BAR-97 EIS system or a BAR-90 TAS. Final approval is not granted until the component has been intergrated into a fully-certified EIS or TAS.

This certificate is issued with the condition that if any problems or discrepancies are discovered subsequent to the issuance of this certificate, Teledyne shall correct or resolve the problems to the satisfaction of the bureau and in a time frame acceptable to the bureau. If modifications are made after this approval, Teledyne must submit the changes along with the test data listed below, along with the effect of the modification on the sensor's useful life, prior to the release/sale of the updated equipment.

- Section 2.4.5 j) - Accuracy & Bias
- Section 2.4.5 k) - Repeatability
- Section 2.4.6 g) - System Response Time
- Section 5.4.2 - Temperature Stability

If you have any questions, please feel free to contact me.

Sincerely,

DAVID J. AMLIN, Manager
Engineering & Research Branch

DJA:RMB:cbr

Attachment

STATE OF CALIFORNIA
BUREAU OF AUTOMOTIVE REPAIR

PROVISIONAL COMPONENT APPROVAL:
Oxygen Sensor

Teledyne Analytical Instruments is granted *Provisional Component Approval* for Oxygen Sensor Model Numbers R17A, R21A and R22A based on tests conducted in compliance with the provisions of Health and Safety Code Section 44036 and upon documentation and representations made by Teledyne and/or their representatives. *Provisional Component Approval* means that the component has met the performance requirements allowing it to be considered for use in a BAR-97 EIS system or a BAR-90 TAS. Final approval is not granted until the component has been integrated into a fully-certified EIS or TAS.

This approval is subject to, but not limited to the conditions listed below.

DESCRIPTION: Oxygen Sensor model numbers R17A, R21A and R22A meeting requirements of Sections 2.4.5 j), 2.4.5 k), 2.4.6 g) and 5.4.2 of the BAR-97 Emissions Inspection System Specifications, dated May 1996 with addenda through March 1997, and Sections 2.4.2 k) and 5.3.11 of the BAR Test Analyzer System Specifications, dated April 1996.

CONDITIONS OF CERTIFICATION:

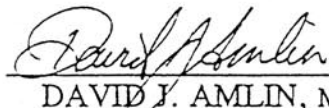
1. The component must be integrated into a fully-certified BAR-97 EIS system or BAR-90 TAS.
2. If any problems or discrepancies are discovered subsequent to the issuance of this certificate, Teledyne shall correct or resolve the problems to the satisfaction of the bureau and in a time frame acceptable to the bureau. If modifications are made after this approval, Teledyne must submit the changes along with appropriate test data to the bureau prior to the release/sale of the updated equipment.

Failure to comply with the condition listed above may result in decertification of future sales for a period of 30 days or more. Serious uncorrected problems could result in decertification.

APPROVAL DATE: June 11, 1997



L. G. VANN, JR.
Chief of Staff, Smog Check Program



DAVID J. AMLIN, Manager
Engineering & Research Branch



ROBERT M. BENJAMINSON
Primary Test Engineer