

Test Report No. 2120-4594

# REPORT OF TEST ON

PHILADELPHIA GEAR CORPORATION

SMBO-15 LIMITORQUE

Report Writer: *H. F. Soltis*

H. F. Soltis

Test Engineer: *W. A. Black*

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LOCKHEED ELECTRONICS COMPANY

MILITARY SYSTEMS DIVISION ..... PLAINFIELD, NEW JERSEY

Date: July 31, 1968

Approved by: *N. Johnson*

N. Johnson, Supervisor  
Environmental Laboratory







## PURPOSE OF TEST:

To subject the test specimen to the Vibration Test referenced in Philadelphia Gear Corporation Purchase Order No. 600198.

## MANUFACTURER:

Philadelphia Gear Corporation  
King of Prussia, Pa.

## SPECIMENS TESTED:

SMBO-15 Limitorque  
(Reliance Motor S/N 435571-MS)

## APPLICABLE DOCUMENTS:

Philadelphia Gear Corporation  
Purchase Order No. 600198

## CASE NUMBER:

24-8041-0594

QUANTITY OF  
SPECIMENS TESTED:

One (1)

SECURITY CLASSIFICATION  
OF SPECIMENS TESTED:

Unclassified

## DATE TEST COMPLETED:

7/30/68

## TEST CONDUCTED BY:

LOCKHEED ELECTRONICS COMPANY  
ENVIRONMENTAL LABORATORY

DISPOSITION OF  
SPECIMENS TESTED:

Returned to Franklin Institute, Applied Mechanics Laboratory per the request of Philadelphia Gear Corporation per Lockheed Electronics Company Packing Slip No. 41775 dated 7/31/68.

## TEST APPARATUS:

Reaction-Type Vibration Machine,  
LAB Company Model RVH-72-5000, S/N 51401

Vibration Meter, MB Company  
Model M-6, S/N 539

Vibration Pickups, MB Company Type 120,  
S/N 14187 (vertical) and S/N 11263  
(horizontal)

## TEST PROCEDURE:

The test specimen was secured to the vibration machine, as shown in Figures 1 and 2, and subjected to five (5) cycles of vibration in both the vertical axis and the horizontal axis with the mounting flange in the horizontal plane.



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TEST PROCEDURE:  
(Cont'd)

Each cycle consisted of two (2) minutes of vibration at a frequency of twenty (20) cps. and a acceleration level of one (1) "g", followed by one (1) minute of no vibration.

Visual inspections for evidence of any external physical damage were conducted throughout vibration testing.

TEST RESULTS:

The Vibration Test was completed with no visible evidence of any external physical damage.

RECOMMENDATIONS:

None. Data merely submitted.

Test Engineer:

W. A. Black

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