

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*

W. A. Black

LOCKHEED ELECTRONICS COMPANY

MILITARY SYSTEMS DIVISION PLAINFIELD, NEW JERSEY

Date: July 31, 1968

Approved by: *N. Johnson*

N. Johnson, Supervisor
Environmental Laboratory



LEC 197P

7907300166





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:

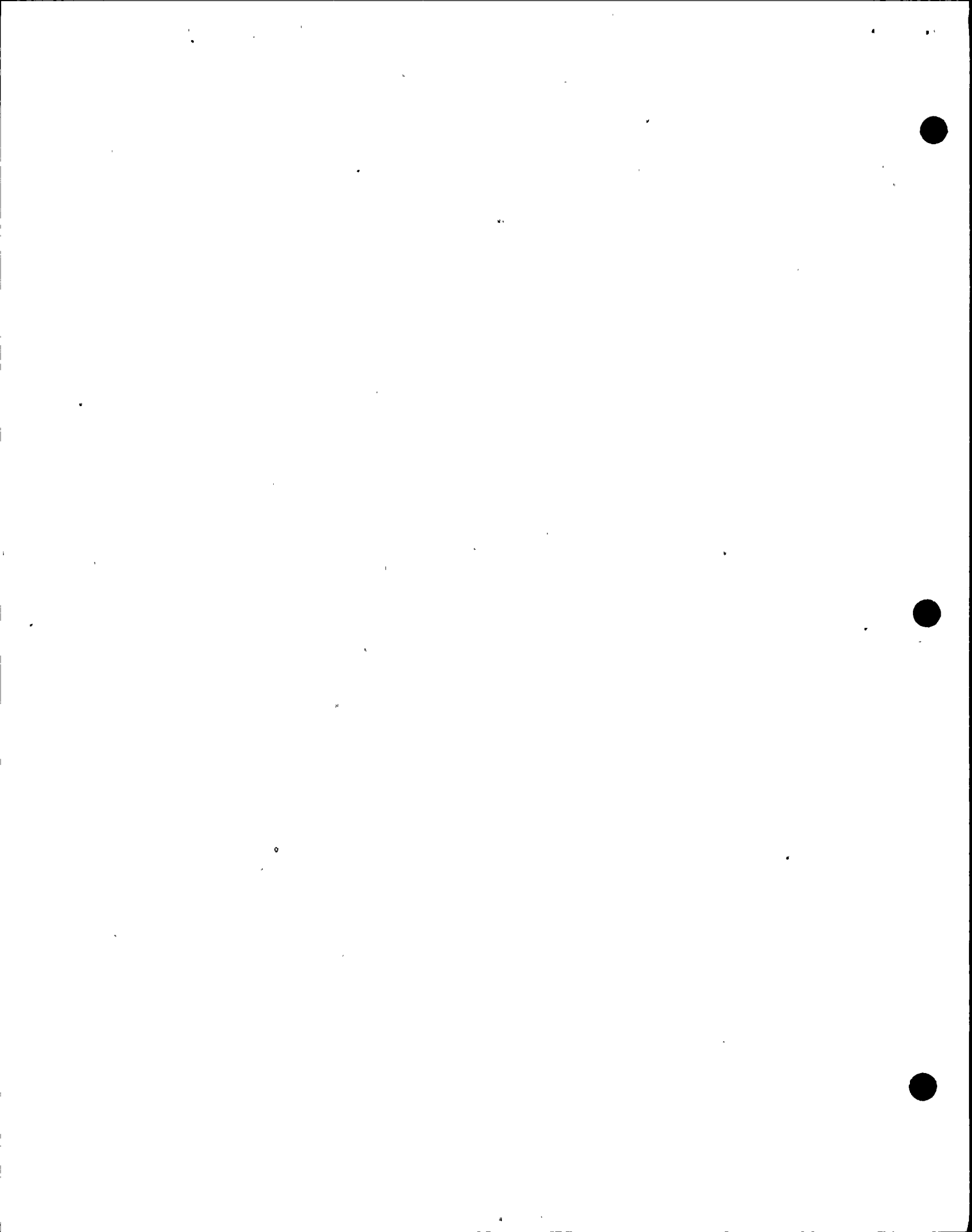
Reaction-Type Vibration Machine,
LAB Company Model RVH-72-5000, S/N 51401

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.



REC

Test Report No. 2120-4594

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

W. A. Black

