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OTTAWA
                                June 14. 1845.
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## REPORT of the

ORE DRESSING AND METALLURGICAL LABORATORIES.

Invesitgation No. 1891.

Corrosion Resistance of Anti-Corrosion Compound for Alrorajt Engines (Specification Co27-587).

Background:
A. Ietter dated May 9, 1945, (File No. 1034A), from Wing Commander J. Horner, Commanding officer, No. 14 A . I. District, R.C.A.F., Department of National Defence for Air, Ottawa, Ontario, requested that a sample of anti-corrosion compound (Ref. No. 34A/94) be tested for Protection and Eydrobromic Aoid Neutralization. The compound and the diluent lubricating oil were to be furnished by the RoC.A.F.

The letter stated in part:
"Results to be forwarded to Air Force Headquartors, attention AMSO:DAI."
"The sample was supplied by No. 11 Equipment Depot and was taken from their Incoming Shipment No. 1086."

TESTS PGRPORMED:
Protection Test.
The steel panols corroced rather budly in the Protection Tost (Paragraph Rm the specification). See Figures $l a$ and $1 b$.

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Neulifaliathor cest.
The steel panels cornoded in the Hydrobromic Neum tralization Test (Paragraph Zn in the specification)。 See Figure 2.

Conclusioris:
The anti-corrosive compound fasled to meet the specification requirements with regard to:
L. Protection Test.
2. Fydrobromic Acid Neutrallzation Test.

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RRR:MC。

## Figure 1.


(a)
(b) Reverse sids.

STEEL PANELS COATED WITH COMPOUND-LUBRICATING OIL MJXMURE, AFTER 150 HOURS IN THE HUUIDITY CABINET.
(Magnifications approsimately 0.5).

Plgure 8.


TYPICAI STEEL PANEI. AFTER TER HYDROBROMIC ACID MEUTRALTZATTON GEST.
(Magnisication: approximatoly 0.75)。

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