

DATE

May 2003

CUSTOMER

Aviation Wing of the Indian Navy

CORTEC REP.

OKS Speciality Lubricants (India) Private Limited

PRODUCTS

VpCI®-416 / 377, VpCI®-132, VpCI®-146 and VpCI®-126



PROBLEM

Using the following materials, the Indian Navy previously used a very cumbersome, time consuming, labor intensive and expensive method of preserving their Aircraft Engines for a period of two years:

- **Moisture Barrier Bag** - 1 no.
- **Paraffin paper** - 30 meters
- **Silica gel** - 10 kgs.
- **Rust preventive oil** - 15 litres
- **Gasoline** - 4 litres
- **Poly sheet** - 20 meters

Every three months, all these products mentioned above, except the Moisture Barrier Bag were replaced and Silica Gel was regenerated by heating, every quarter. This entire process took them 1 1/2 days each quarter to renew the protection system. Additionally, these products are toxic and caused lead poisoning. In spite of all this, the engines were still corroding during storage.

4119 White Bear Pkwy., St. Paul, MN 55110 USA
Phone (651) 429-1100, Toll free (800) 4-CORTEC
Fax (651) 429-1122, E-mail: info@corotecvci.com
www.corotecvci.com

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CASE HISTORY

Preservation of Naval Aircraft Engine

APPLICATION

1. Cleaned all accessible surfaces of the engine with VpCI®-416 (1:6 solution).
2. Wiped these surfaces with Cortec® VpCI®-377 (1:9 solution).
3. Inserted VpCI®-132 Foam Pads (7 per engine), cut to suitable size and placed them into various cavities, voids, intake and outlet chambers and also on external surfaces of the engine.
4. Wrapped the entire engine with VpCI®-146 paper and sealed.
5. Wrapped the equipment further with VpCI®-126 Film and sealed once again.

CONCLUSION

The customer chose Cortec® because our protection system is clean and convenient to use. Cortec's products only need to be applied once every two years and it takes only two hours to apply and 15 minutes to dismantle and remove. This is saving valuable time to the customer, and the material cost has also been reduced. Cortec's products offer a non-toxic, non-hazardous and environmentally friendly solution for long term storage. They also are easily disposable and recyclable. By switching to Cortec's method, the customer saved 60 - 70% on current costs. Considering the fact that there is a large number of engines to be preserved in the Aviation Wing of the Navy, as well as the Indian Air Force itself, this is a huge saving for the Indian Defense Organization. Most of the Cortec® products conform to MIL Specs and offer a far superior, reliable and efficient inhibiting action, which has been proven worldwide.