



HIGH VOLTAGE TEST REPORT No. 01/3/008

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HIGH VOLTAGE TESTING OF LANOLIN BASED LUBRICANTS

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Date of Test: 13 March 2001

Test Equipment: 75KV AC Test Set
Make: Foster
Serial No.: TL117

Test Sample: a) Ozsray Industry Extra Grade Liquid
b) Ozsray Industry Grade Liquid
c) Multipurpose Lanolin Grease

Test Method: DRY LEAKAGE TEST

A suitable length of fibreglass rod (approximately 700mm long) was cleaned of any surface contaminants with alcohol. The fibreglass rod was placed on the testing frame with 70KV applied to both ends and with the centre earthed for one minute. The standing leakage current was measured and recorded.

Each of the products to be tested were applied to the fibreglass rod and tested as above in turn. Refer to Table I for test results.

- Notes:
1. Before application of each product the fibreglass rod was cleaned of contaminants.
 2. Products applied by spraying were allowed to dry for a minimum of one minute before testing.

WET LEAKAGE TEST

Immediately after each of the dry leakage tests, water was sprayed onto the surface of the fibreglass rod and allowed to drip for one minute. The test voltage was increased until 70KV was achieved. Refer to Table II for test results.

Environmental Conditions: Relative Humidity measured 58%
Ambient Temperature measured 29°C

Uncertainty of Results: ± 2% for applied AC Voltage at 95% confidence level.

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CONTINUATION OF HIGH VOLTAGE TEST REPORT

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TABLE I - DRY LEAKAGE TEST 70KV/300mm

PRODUCT	LEAKAGE CURRENT (mA)
None (standing leakage)	9.3
Ozspray Industry Extra Grade Liquid	9.3
Ozspray Industry Grade Liquid	9.3
Multipurpose Lanolin Grease	9.3

TABLE II - WET LEAKAGE TEST 70KV/300mm

PRODUCT	LEAKAGE CURRENT (mA)
Ozspray Industry Extra Grade Liquid	9.3 (Note 1)
Ozspray Industry Grade Liquid	9.3 (note 2)
Multipurpose Lanolin Grease	9.3 (note 3)

- Notes:
- Flashover occurred at 68KV. After resetting the HV Test Set, 70KV was achieved and held for one minute without further flashovers occurring.
 - 70KV achieved and held for one minute without flashovers occurring.
 - Flashover occurred at 59KV. After resetting the HV Test Set, 70KV was achieved and held for eleven seconds before flashover occurred again.

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