

SERVICE BULLETIN



Carrier Corporation

Title: 19XL/XR/XRT Oil Line Wear

Number: C9904

Date: 02/05/99

Models Affected: All 19XL/XR/XRT Compressors

Supersedes: New

Date: N/A

Purpose:

To advise the field of possible copper oil line wear, due to contact with electrical conduit.

Background:

The guide vane and/or oil heater wiring conduit(s) are attached to the oil supply line with tie-wraps to organize tubing and wiring runs on the compressor assembly. Vibration has caused the steel conduit to rub on the copper tubing, in areas adjacent to tie-wraps, wearing away the copper wall of the tubing on some units.

Factory Action:

The planned factory fix is shown on the attached illustration. The guide vane and/or heater conduit(s) will be routed through a 16" to 20" length of Armaflex tubular insulation (1-1/8" I.D. x 3/8" wall) where the conduit(s) runs are adjacent to the oil tubing. The insulated conduit(s) will be reattached to the oil line with tie-wraps.

Field Action:

The oil supply line should be checked for wear when a 19XL, XR or XRT unit is visited in the normal service cycle. It would be a good practice to plan to add the (split tubular) insulation to the electrical conduit(s) attached to the oil tubing, even if it is unmarked. Certainly, if slight marking to the copper tubing is detected, the tie wraps should be removed and a 3/8" minimum thickness insulation material, such as Armaflex, should be applied to the electrical conduit(s). Split tubular insulation is recommended to eliminate the need to disconnect wiring or tubing. The insulated conduit(s) is then reattached, to the same area of the oil supply line, with tie wraps. The insulation will dampen conduit movement that may be present, preventing contact and potential for wear.

If marking to the copper oil line is found to be more substantial, the oil line should be replaced. However, if the oil line is replaced, the electrical conduits should be insulated to prevent wear.