OIL FURNACE TECHNICAL EVALUATION FORM

United Technologies
Climate | Controls | Security

Electrical Readings

Voltage to oil furnace _____Voltage at 60 ∅ ☐, 50 ∅ ☐

Control voltage at primary oil control _____ Voltage

Voltage across terminals of run capacitor _____voltage
(Motor operating at high speed, blower door in place)

Oil Delivery Components

Single pipe oil delivery ☐ Two pipe oil Delivery ☐

Length of oil lines from oil tank to furnace _____ft. in.

Lift (height) from tank to oil furnace _____ft. in.

Size of oil lines _____inch diameter

Size of oil line filter _____ (model number)

Tank installed in the ground ☐ 275 Gal. Above ground tank ☐

Is a lift pump being used with installation?☐

Chimney vent system

Height of chimney _____ft. Diameter of chimney _____ in.

Length of chimney connector _____ Ft.in. Connector height from furnace to chimney _____ Ft.in.

Single appliance vent application ☐ multiple appliance vent application ☐

Vent connector diameter _____in.

Diameter size of barometric damper _____in.

Distance from barometric damper to furnace _____in.

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Oil Pump Operation Readings

Oil pressure at the oil pump outlet _____PSI Oil pressure at inlet to oil pump _____in.wc

Oil nozzle size _____GPM Oil angle pattern _____, hollow ☐ semi solid ☐ solid ☐

Efficiency Readings

Draft at the breach of furnace _____ inch WC.

Draft before the barometric damper at smoke pipe _____ inches WC.

Flue temperature (before barometric damper in flue pipe) _____ °F

Ambient temperature at furnace _____ °F

Net flue temperature of furnace _____ °F

CO^2 reading at flue pipe (before barometric damper) _____ % CO^2

Smoke reading at flue pipe (before barometric damper) _____

Air Flow Readings

Return air temperature at furnace (4 readings, one from each side of the return plenum)

_____ °F _____ °F _____ °F _____ °F = _____ °F (averaged readings)

Supply temperature before cooling coil ☐ after cooling coil ☐

_____ °F _____ °F _____ °F _____ °F = _____ °F (averaged temperature)

Technician's Name: _____ DATE: _____