OIL FURNACE
TECHNICAL EVALUATION
FORM

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: _____