

**OIL FURNACE  
TECHNICAL EVALUATION  
FORM**

**Electrical Readings**

Voltage to oil furnace \_\_\_\_\_ Voltage at 60  $\phi$  ☐, 50  $\phi$  ☐

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<sup>2</sup> reading at flue pipe (before barometric damper) \_\_\_\_\_ % CO<sup>2</sup>  
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: \_\_\_\_\_