



## NOTES

### Oil Tank Line Identification

**Vent Line** - Tallest tube in the oil tank. Used to provide positive pressure when engine is running to help feed oil to the oil pump.

**Feed Line** - Used to feed the oil pump. Allows oil to be pulled from the bottom of the oil tank.

**Return Line** - Taller than the feed line; connected to the oil filter housing output to return clean oil to the oil tank on Evo configurations.

**Oil Filter** - The Smart Pump allows the use of a 10 or 40 micron filter.

10 Micron - H-D Part #63798-99 (filters smaller particles)

40 Micron - H-D Part #63796-77A (standard Evo filter)

**Oil Lines** - The oil lines connecting the Smart Pump to the oil filter operate under **high pressure** and are colored **RED** in the diagram.

Use SAE J1019 3/8" 400psi WP hose only.

Oil filters allow oil to flow in only one direction. You must examine the filter housing and connect the oil lines to ensure that oil is allowed to exit via the center of the filter.

**THIS PUMP IS NOT SELF-PRIMING. YOU MUST PRIME THE PUMP ACCORDING TO THE INSTRUCTIONS PRIOR TO STARTING YOUR ENGINE OR CATASTROPHIC ENGINE FAILURE WILL OCCUR.**

Oil leaves the oil tank via the feed line. The oil pump pulls the oil through the feed side from where it is sent to be filtered.

Return (Pressure)

Feed (Suction)

After lubricating the engine, oil is pumped back to the oil tank via the return line.

Oil must enter the filter through the outer ring of holes. It is then cleaned as it passes into the center through the filter element.

Clean oil must leave through the center of the oil filter. It flows from the filter back to the oil pump to lubricate the engine.

— — — — — HIGH Pressure  
 - - - - - Normal Pressure

**FAILURE TO INSTALL OIL PUMP CORRECTLY WILL VOID ANY WARRANTY, AND MAY RESULT IN SERIOUS INJURY OR DEATH.**