

**Topic**

- **Check the oil and coolant for Harlan tractor**

- Start of day
  - Before the start of day operation, the oil and coolant levels should be checked and fluids added as necessary
- Open hood
  - To open the hood of the Harlan, release the rubber hold-downs on each side. Then lift the hood from the front for access to the engine compartment.
- Oil
  - Dip stick
    - Locate the dip stick. It extends from the rear of the engine and curves up and forward on the driver's side.
    - Be sure the dip stick is fully inserted into the tube before removing to read the oil level. Use the yellow finger ring to remove the dip stick. If engine has run recently, you will need to wipe the dip stick and reinsert and remove again to obtain an accurate reading.
    - The normal operating level is between where the word "SAFE" is imprinted on the dip stick (between the upper and lower bars with arrows that indicate the safe range. If the oil is below the lower bar (or if the "ADD" is dry, then oil should be added to the engine before proceeding.
    - The "SAFE" range indicated on the dip stick between the two bars represents approximately one quart.



- The engine uses normal automotive grade engine oil.
- Adding oil
  - To add oil. Remove the plastic oil cap on top engine and add as needed. Use of a funnel will help avoid spills. The oil cap is labeled "ENGINE OIL" and contains a logo of an oil can printed on a yellow background.



- Coolant
  - Overflow recovery system
    - The engine contains an overflow recovery system. This is a white plastic container sitting on the driver's side of the radiator. It is normal for the level of coolant to fluctuate in the container. It is relatively full when the engine is hot and low when it is cool.
  - Check radiator

**Topic**

- With the engine cold, open the pressurized radiator cap on top the radiator at the front of the engine. Coolant should be visible in the radiator.
- Adding coolant
- We use pre-mixed coolant in the radiator. Pour it directly from the container into the radiator.



- **CAUTION: DO NOT ADD OIL TO THE RADIATOR! DO NOT ADD COOLANT TO THE ENGINE OIL!**