

## DO'S

## ENGINE

## a. General

1. Do release the starter key once the engine has started.
2. Do check the proper functioning of oil pressure gauge and battery charging indicator once the engine has started.
3. Do get the tightness of cylinder head and manifold nuts checked regularly.

## b. Air Inlet System

1. Do inspect the air element clean if necessary.
2. Do check inlet Hose and clamps regularly.

## c. Fuel System

1. Do drain sediments from the fuel tank periodically
2. Do clean fuel tank thoroughly once in every 500 hrs.
3. Do change filter regularly as per recommended service schedule.
4. Do fill in diesel in the tank at the end of the day's work so as to avoid condensation.

## d. Water cooling System

1. Do ensure that radiator is always filled with clean (soft) water & radiator cap is tight.
2. Do clean the radiator front grill to ensure free flow of air when the engine is operating.
3. Do ensure proper tension of fan belt. Deflection should not be more than 10 mm (0.39 inch) when pressure is applied between the fan pulley and the crankshaft pulley.

## e. Lubrication System

1. Do replace engine oil after first 50 hrs of operation, thereafter, engine oil should be replaced every 250 working hrs.
2. Check oil level daily with tractor parked on a level ground.
3. Do replace lub. oil filter element every 250 working hrs, after 1st replacement at 50 hrs.
4. Do remove fly wheel housing bottom plug and check for oil traces.

## DONT'S

## ENGINE

## a. General

1. Do not keep on continuously cranking the engine with starter key. It will shorten the life of battery & starter.
2. Do not race the engine in neutral or at the time of cranking.

## b. Air Inlet System

1. Do not run the tractor if the air cleaner assembly is defective as this will lead to impure air being taken in and consequently excessive wear of liners and piston rings.

## c. Fuel System

1. Do not keep the fuel tank without a proper sealing cap.
2. Do not use contaminated fuel as it may effect the operation of fuel injection pump and the injections.
3. Do not use bad quality spurious filters as replacement.
4. Do not allow leakage through fuel pipe joints.

## d. Water Cooling System

1. Do not run the tractor with the radiator cap removed/non-acting radiator cap.
2. Do not run the tractor when the radiator hoses are leaking as it will lead to or heating of the engine.
3. Do not remove thermostat as it will effect engine performance.
4. Do not run the belt tight as it will lead to premature failure of water pump and alternator bearing.
5. Do not run the belt loose as it will lead to inefficient cooling and improper charging of the battery.

## e. Lubrication System

1. Do not use wrong grade of lubrication oil.
2. Do not mix different brands of engine oil.

## f. Exhaust System

1. Do ensure that the exhaust passage is not blocked.

**DO'S****TRANSMISSION**

1. Do change the transmission oil at each service.
2. Do use recommended grade of transmission oil.

**HYDRAULIC SYSTEM & LINKAGE**

1. Do ensure that hydraulic control lever is in down position while draining the transmission oil.
2. Do ensure that the hydraulic strainer is cleaned at every schedule.
3. Do adjust the top link for proper length.
4. Do ensure that the lift cover bolts are always tight.
5. Do keep the lower links in lifted position when the tractor is moving without an implement mounted on it.
6. Do keep the ball joints on top and lower links clean and dry. Do not lubricate them.
7. Do ensure that implements are raised and lower using the position control lever only and not the draft control lever.

**BRAKING SYSTEM**

1. Do use parking brakes when the vehicle is stationary
2. Do check loose connections in linkage mechanism.
3. Do grease brake pedal bush.

**FRONT AXLE**

1. Do lubricate the Bushes and steering drag links periodically.
2. Do get the toe-in adjusted by an authorised service center periodically.
3. Do check the tightness of front and rear wheels recommended torque.
4. Do flush oil once a year or 1000 hrs which ever is earlier. If tractor is not in operation.

**TYRES**

1. Do operate the tractor with correct tyre pressure. This will lead to better traction, longer tyre life and better fuel consumption.

**DONT'S****TRANSMISSION**

1. Do not use high gear with low engine rpm.

**HYDRAULIC SYSTEM & LINKAGE**

1. Do not move the operational control range to fast response, while the tractor is on a hard surface like concrete, as the implement will crash down and get damaged.
2. Do not attempt to pull or tow anything from the top link connection. It is dangerous.
3. Do not use bolts place of lynch pins.
4. Do not reverse the tractor with PTO driven implement attached and PTO lever in ground PTO position implement may get damaged in reverse.

**BRAKING SYSTEM**

1. Do not rest foot on the brake pedal.

**FRONT AXLE**

1. Do not use wrong grade of oil for lubrication of front axle.

**TYRES**

1. Do not allow oil, grease and some crop spray containing considerable amounts of acid and alkalies to contaminate the tyre. These can cause considerable damage to the tyre if they penetrate into plies through small holes or splits.
2. Do not operate the tractor with excessive tyre pressure.

## DO'S

**ELECTRICAL**

1. Do ensure that the battery terminals are kept clean.
2. Do ensure terminal base is Lubricated with petroleum jelly.
3. Do earth the tractor by wrapping a chain around the front axle, dropping one end of the chain on the ground.

**SAVE DIESEL****Let's Join Hands**

- Do switch off the engine when tractor is not in operation. Avoid unnecessary idling.
- Do operate at Optimum speed and correct gear.
- Do maintain the recommended tyre pressure for fuel efficient operation and long life of tyres. Check daily.
- Do use matching trailer for transportation. Ensure proper hitching. Never overload the trailer.
- Do maintain your tractor in good working condition.
- Do replace genuine parts from Authorised Dealers.

**For Better Performance**

- Ensure that safety shields are in place and in good condition.
- Read all operating instructions before commencing to operate Tractor.
- Keep the air cleaner clean.
- Fit new sealing rings when the filter elements are changed.
- Watch the oil pressure gauge or warning light and investigate any abnormality immediately.
- Ensure that the transmission is in neutral before starting the engine.
- Keep all fuel in clean storage and use a filter when filling the tank.
- Attend to minor adjustments and repairs as soon as the necessity is apparent.
- Allow the engine to cool before removing the radiator filler cap and adding water, remove the radiator cap slowly.
- Shift into low gear when driving down steep hills.
- Keep hydraulic control lever fully down when not in use.

Ensure daily care of your tractor to avoid breakdowns.

## DONT'S

**ELECTRICAL**

1. Do not change leads of the battery terminals as this will lead to failure of electrical components.
2. Do not leave the battery leads in the connected position if the tractor is not going to be used for a long period of time.
3. Do not overfill the battery with distilled water. The level should be just enough to submerge the battery plates.
4. Do not do any welding in the tractor without disconnecting Battery terminals.

**EVERY DROP COUNTS****To Save Oil**

- Do not allow fuel or oil to leak. Ensure that the joints are adequately tight.
- Do not spill fuel or oil while filling or topping up. Use funnel.
- Do not overfill engine oil as this can cause excessive oil consumption and oil leaks.
- Do not allow the rear wheel to slip. Use ballast, if necessary.
- Do not use worn-out tyres.
- Do not use inferior quality lubricants, use only recommended grade.

**For Safe Operation**

- Do not Run the engine with the air cleaner disconnected.
- Do not Start the tractor in an enclosed building unless the doors and windows are open for proper ventilation.
- Do not Operate the tractor or engine while lubricating or cleaning.
- Do not Temper with the fuel injection pump, (if the seal is broken) the warranty becomes void.
- Do not allow the engine to idle for a long period.
- Do not Refuel the tractor with the engine running.
- Do not Start the engine with the PTO engaged.

Carefully and follow the other instructions given in the DOs and DOs and DON'Ts maintenance booklet, to ensure maximum saving of oil.