



Maintenance Service Schedule

The purpose of this technical document is to provide a recommended service maintenance schedule for the HHXDF4-DF5. This is an expanded list from the operator's manual. Following this recommended maintenance schedule will help ensure long and reliable service of your HHXDF4-DF5 Whiteman Ride-on power trowel.

*****When operating in hotter and dustier condition it's required to increase oil and air clean service intervals to achieve expected engine performance and life.*****

Do not operate or service the equipment before reading the entire manual. Safety precautions should be followed at all times. Failure to read and understand the safety messages and operating instructions could result in injury to yourself and others.



Daily or Before Use

Service Item	Notes
Add Clean Fuel	Use clean fresh fuel, minimum of 87 octane / Less than 10% ethanol.
Check Engine Oil	SAE 30W above 40F , 10W-30 for colder climates
Engine Coolant	50/50 Eth. Glycol (Green)
Check Steering Hyd.	Parker Duraclean ISO 46
Check Engine Air filter	Do not use pressurized air to clean filter. Do not oil the foam pre-filter.
Check Seat Switch	Test for proper operation of the seat safety switch.
Check Guards	Check safety belt guards are in place and secure.
Check Gearbox oil	Use the sight glass to check the gearbox level. Refill as needed with P/N 20445 (24oz. bottle). Chevron ISO 220 Industrial Synth Gear Oil.
Check Engine RPM	Correct engine RPM will ensure correct blades speed and engine cooling. Check and adjust as needed to 3,800 RPM.
Grease Trowel arm bushings, thrust collar, pitch tower, crank handles and steering linkage.	Using EP2 type grease. Grease all locations prior to use. If the unit is washed/pressure washed off all grease points should be greased after to push out any remaining water. Do not over grease. 1-2 pumps with a hand grease gun is all that is needed at least twice a day.
Grease Drive Cross Shaft Pillow Block Bearings.	Using EP2 type grease. Grease all locations prior to use. If the unit is washed/pressure washed off all grease points should be greased after to push out any remaining water. Do not over grease. 1-2 pumps with a hand grease gun is all that is needed at least twice a day or every four hours when operating.

Continue to next page.....



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Daily or Before Use

Lubricate Pivots/Linkage	Lubricate steering rod end joints, throttle and choke cable linkage & levers.
Driveline	Inspect driveline, belt & CV boots for wear.
Trowel blades	Always replace worn blades as a set.
Lift eyelets and lift strap	Inspect lift points and lifting strap for any damage prior to lifting for transport.
Spider Retaining Screw/Hardware	Check for loose hardware and check/tighten spider retaining screw to 32.5 ft. lbs. (44.06Nm)

5 Hours Service

<i>Service Item</i>	<i>Notes</i>
Change engine oil & filter	This will remove the oil contaminants from engine break-in. Filter P/N 23725-23

Every 100 Hours or Annually

<i>Service Item</i>	<i>Notes</i>
Change Engine Oil & Oil Filter	SAE 30W above 40F; 10W-30 for colder climates. Filter P/N 23725-23
Change in-line fuel filter (GAS)	Replace with OEM filter Qty 1 P/N 23725-16
Change air filter	Primary & foam pre filters. Qty 1 each P/N 1G65911222
Check LPG system and hoses	Check all hoses and vaporizer
Replace spark plugs	OEM plugs P/N 23725-26 or NGK BKR4E Gap: 0.024 to 0.027 in (0.60 to 0.70mm) Torque: 15 to 18 ft. lbs. (20 to 24 Nm)
Electrical – Battery, Grounds, wiring, fuses.	Clean/service battery and cables; Check that ground cables at the engine block are clean and tight. Inspect wires for any chaffing or otherwise loose connections at fuse block.
Muffler	Inspect muffler and mounting hardware
Cooling System	Inspect cool air intake thru radiator, also belt fan and hoses
Engine Isolator Mount	Inspect quality of the engine vibration isolator mounts.
EVAP System	Inspect EVAP system, hoses for correct routing and cracks.

Continue to next page.....



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Every 100 Hours or Annually

Gearbox Oil	Replace gearbox oil first time at 100 hours. Refill with P/N 23992 (1 gal. bottle). Chevron ISO 220 Industrial Synth Gear Oil. Uses 144oz per box.
MultiClutch – CVT System	Inspect drive belt for wear and cleanliness, Using shop air blow out the upper clutch of any dirt and clutch dust.

Every 200 Hours or 2 Years

Service Item	Notes
Engine Valve Adjustments	Check and adjust valve. (IN/EX .006" - .006") (0.145mm)
Fuel Lines	Replace fuel lines with approved EPA hose.
Fuel Tank Filter	Remove and clean fuel valve with in tank screen. Reinstall with thread sealant.
Driveline	Renew grease in CV Joint, Inspect lower puller retaining screw. Check belt wear.

MQ P/N'S	Description
20445 (24oz) 23992 (1 gallon)	Gearbox Oil (Chevron ISO 220 Industrial Synth Gear Oil)
23725-23	Engine Oil Filter
23725-16	In-line Fuel Filter
23275-02	Hydraulic steering filter
1G65911222	Air Filter
23725-26	Spark Plugs (NGK BKR4E) Gap: 0.024 to 0.027 in (0.60 to 0.070 mm) Torque: 15 to 18 ft. lbs. (20 to 24 Nm)

