



D-90 LUBRICATION/FLUID MAINTENANCE CHART

4/4/2017

DIEDRICH DRILL

Component	Lube/ Fluid Type	Capacity	Daily	Weekly	Monthly	Twice Anually	Other
Power Engine Unit 115HP (DEERE 4045)	John Deere PLUS-50 or (ACEA-E7/E6) or equivalent SAE 15W-40 Diesel Engine Oil	15.2 Liter - (16.1 QT)			Check all Hoses, Filters, Belts		Per Engine Manual- CHANGE AFTER BREAK-IN 100 HRS- Then Every 500 Hours Min for Oil and Filter
Engine Coolant	John Deere COOL-GARD	8.5 Liter/ 9 Quart			Test Coolant		Change an Flush Coolant every 2 years (3000 hours)
Transmission (Eaton 5 speed)	80W-90 Gear Oil	1.5 US gallon (6.25 quarts) (Approx) - Fill to side plug level	Check For Leaks	Check Oil Level		Replace With Clean Oil	
Rotary Box	80W-90 Gear Oil	5.75 US Gallon (23 Quarts) (Approx)- Check level by hanging vertically and Removing Pipe Plug	Check For Leaks	Check Oil Level		Replace With Clean Oil	
Main Right Angle Drive	80W-90 Gear Oil	4 Quarts (Approx)- Fill to side plug level	Check For Leaks			Replace With Clean Oil	
Cat-Head Right Angle Drive	80W-90 Gear Oil	2-1/4 Cup (Approx)	Check For Leaks			Replace With Clean Oil	
U-Joint Shafts	Grease (Heavy Duty Multi)			Grease			
Hydraulic System and Filter	AW-32 Hydraulic Oil (Not Bio-Degradable)	Tank- 27 Gallons - Use Sight Gauges	Check For Leaks	Check Oil Level		Drain, Flush and Replace w/ Clean Oil	Hydraulic Filter: Use Color coded Pressure or Suction gauge on filter head: Recommended- Change filter every 300 Hours

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Winches	Bloom Synthetic Gear Oil or 80W-90 Gear Oil	Varies- Check Winch Manual or Body Stamping	Check For Leaks	Check Oil Level		Change Winch Body Gear Oil	
Water Pumps	Grease- (SAE-30 Oil for Piston Pump CranK Case)	See Specific Water Pump Manual	Grease		Inspect Packing Adjustment	Re-lubricate ball bearings with EP Lithium Soap Base Grease (Moyno)	Keep Passages free and drained from water in cold weather
Slide Base	Lightweight Lubricant JB-80 Recommended			Lubricate			
Kelly Bar	Lightweight Lubricant JB-80 Recommended		Inspect/ Lubricate As Needed	Inspect/ Lubricate As Needed			Keep Clean and Lightly Greased/ Lubricated
Feed Cylinder Guide Tubes	Lightweight Lubricant JB-80 Recommended		Inspect/ Lubricate As Needed	Inspect/ Lubricate As Needed			Keep Clean and Lightly Greased/ Lubricated
Tower Sheaves	Grease (Heavy Duty Multi)						Grease every 150 hours
Cylinder Pivot Pins	Grease (Heavy Duty Multi)						Grease Every 100 Hours
Jacks	Grease (Heavy Duty Multi)		Check for Leaks (Hydraulic)				Keep Clean and Lightly Greased