

OIL SAMPLING PROCEDURES

Mobile Equipment

COMPONENT	GOOD	BETTER	BEST
ENGINE	LOCATION: Oil Dipstick	LOCATION: Drain Plug	LOCATION: Sample Valve (upstream of filter)
	TOOLS: Suction pump, Plastic Tubing, Flush Jar	TOOLS: None	TOOLS: Pushbutton Sample Valve
ENGINE COOLANT SYSTEM	LOCATION: Overflow tank	LOCATION: Radiator Cap	LOCATION: Sample Valve (upstream of filter)
	TOOLS: Suction Pump, Plastic Tubing, Flush Jar	TOOLS: Suction Pump, Plastic Tubing, Flush Jar	TOOLS: Pushbutton Sample Valve
TRANSMISSION	LOCATION: Drain Plug	LOCATION: Oil Dipstick	LOCATION: Sample Valve (upstream of filter)
	TOOLS: None	TOOLS: Suction Pump, Plastic Tubing, Flush Jar	TOOLS: Pushbutton Sample Valve
HYDRAULIC / STEERING	LOCATION: Oil Tank (Drain)	LOCATION: Oil Tank (Air Breather or Hatch)	LOCATION: Sample Valve (Return line on valve block)
	TOOLS: None	TOOLS: Suction Pump, Plastic Tubing, Flush Jar	TOOLS: Minimes Sample Valve, High Pressure Port Adaptor
DIFFERENTIAL	LOCATION: Drain Plug	LOCATION: Oil Fill / Air Breather Plug	N/A
	TOOLS: None	TOOLS: Suction Pump, Plastic Tubing, Flush Jar	
FINAL DRIVE / WHEEL HUB SPINDLES	LOCATION: Drain Plug	LOCATION: Oil Fill Plug (if equipped)	N/A
	TOOLS: None	TOOLS: Suction Pump, Plastic Tubing, Flush Jar	

OIL SAMPLING PROCEDURES

Fixed Equipment

COMPONENT	GOOD	BETTER	BEST
HYDRAULICS	LOCATION: Oil Tank (Drain)	LOCATION: Oil Tank (Air Breather or Hatch)	LOCATION: Sample Valve (Return line on valve block)
	TOOLS: None	TOOLS: Suction Pump, Plastic Tubing, Flush Jar	TOOLS: Minimeass Sample Valve, High Pressure Port Adaptor
ELECTRIC MOTOR	LOCATION: Drain valve	LOCATION: On a designated sample port	N/A
	TOOLS: None	TOOLS: Minimeass Sample Valve, High Pressure Port Adaptor	
TURBINES / COMPRESSORS	LOCATION: Oil Tank (Drain)	LOCATION: Oil Tank (Air Breather or Hatch)	LOCATION: Sample Valve (Return line on valve block)
	TOOLS: None	TOOLS: Suction Pump, Plastic Tubing, Flush Jar	TOOLS: Minimeass Sample Valve, High Pressure Port Adaptor
BEARINGS	LOCATION: Drain valve	LOCATION: On a designated sample port	N/A
	TOOLS: None	TOOLS: Minimeass Sample Valve, High Pressure Port Adaptor	
GEARBOXES	LOCATION: Drain Valve	LOCATION: Drain port with a pitot tube above sludge line	LOCATION: On a designated sample port
	TOOLS: None	TOOLS: Minimeass Sample Valve, High Pressure Port Adaptor	TOOLS: Minimeass Sample Valve, High Pressure Port Adaptor
PUMPS	LOCATION: Drain Valve	LOCATION: Modified Breather	N/A
	TOOLS: None	TOOLS: Suction Pump, Plastic Tubing, Flush Jar	
STATIONARY ENGINES	LOCATION: Oil Dipstick	LOCATION: Drain Plug	LOCATION: Sample Valve (upstream of filter)
	TOOLS: Suction pump, Plastic Tubing, Flush Jar	TOOLS: None	TOOLS: Pushbutton Sample Valve