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12-Month (2000-Hour) Forklift Maintenance Checklist

(for Internal Combustion Forklifts)

Date:	
Unit Number:	
Forklift Make:	
Forklift Model:	
Forklift Serial Number:	
Hour Meter:	

Note: This checklist was adapted from Toyota's 8FG-8FGCU 15-32 internal combustion forklift operator's manual. It is not meant to be exhaustive. Please consult the operator's manual for your particular forklift before performing maintenance.

Only trained and authorized technicians should perform service on forklifts.

System	Action	Maintenance Item	Complete?
Engine, Transmission & Fuel System	Inspect	Oil leaks	
		Starting condition and unusual noises	
		PCV valve and piping for clogs and damage	
		Fuel system for leaks	
		Differential for oil level and leaks	
		Torque converter and transmission for oil level, leaks, looseness, and function	
		Control valve and clutch function	
		Inching valve function	
		Carburetor link mechanism	
		Fuel filter element for clogs	
		Inspect the propellor and axle shaft joint for looseness	
		Draining of the fuel sedimenter	
		Engine cylinder head bolts for looseness	
		Differential bolts for looseness	
		Propellor and axle shafts for spine looseness	
		Universal joint for looseness	
		Axle shaft for twisting and cracks	
	Change	Engine oil and filter (if new). If old, check oil filter for clogging	
	Clean	Air filter	
	Measure	Engine rotating condition during idling & acceleration	
		Engine valve clearance	
		Governor for maximum no-load stabilized rotation speed	
		Injection timing	
		Perform a stall test and measure oil pressure	
		Engine valve clearance	
		Engine compression	
		Injection nozzle pressure and condition	
Exhaust & Cooling Systems	Inspect	Radiator coolant level and for leaks	
		Coolant hoses for wear/damage	
		Radiator cap condition	
		Fan belt tension and for damage	
		Exhaust system for operation, leaks, and damage	
		Rubber radiator mount	
		Rubber muffler mount	
		Exhaust system pipe joints for looseness and damage	
		Exhaust vacuum sensor for damage	
		Exhaust register for damage	
		Water temperature sensor for damage	
		Oxygen sensor for damage	
	Measure	Carbon monoxide concentration in exhaust gas	
	Clean	Exhaust injector and check for damage	
Wheels & Axles	Inspect	Tire air pressure	
		Tires for damage, debris, wear, and tread depth	
		Rim and side ring for damage	
		Front and rear wheel bearings for noise and looseness	
		Rear axle beam for looseness	
		Hub nuts for looseness	

		Front axle housing for damage	
		Rear axle beam for damage and looseness	
Steering & Brakes	**Inspect**	Steering wheel for functionality and play	
		Steering valve for leakage	
		Power steering for oil leakage	
		Power steering mounting and linkage for looseness	
		King pin for looseness	
		Brake fluid level	
		Braking operation	
		Parking brake function and operating force	
		Parking brake linkage and cable for looseness and damage	
		Brake pipe and hose for leakage and damage	
		Steering valve mounting for looseness	
		Brake backing plate mounting for looseness	
		Power steering hose for damage	
		Steer knuckle for cracking	
		Master cylinder or wheel cylinder for damage, looseness, and wear	
		Brake shoe sliding and lining for wear	
		Brake drum for wear and damage	
		Brake shoe operating condition	
		Brake anchor pin for rusting	
		Brake automatic adjusting function	
		Backing plate for damage	
	Measure	Brake pedal play and reserve	
		Clearance between the brake drum and lining	
		Brake return spring wear	
Forks, Attachment, Mast & Chains	**Inspect**	Forks and stopper pin for wear/damage	
		Left and right forks for uniformity	
		Mast and lift bracket for cracked welds, looseness, and damage	
		Mast rollers for wear and damage	
		Mast strip for wear and damage	
		Chain tension and for damage	
		Chain anchor bolt condition	
		Chain wheel for operation and wear	
		Attachment for abnormalities and mounting condition	
		Forks base and welds for cracks	
		Mast support bushings for wear and damage	
		Roller pin for wear and damage	
	Lubricate	Lifting chains	
Hydraulics (Cylinders, Pump, Control Valve & Levers)	**Replace**	Hydraulic oil return filter (for new trucks)	
	Inspect	Hydraulic cylinder rod, rod screw and rod end for damage	
		Overall hydraulic system operation	
		Hydraulic cylinders for leaks and damage	
		Hydraulic pin and cylinder shaft support for damage	
		Hydraulic cylinder for uneven movement	
		Oil pump for leakage and strange noises	
		Hydraulic tank oil level, and for leaks and contamination	
		Control lever linkage for looseness	
		Control lever operation	
		Oil control valve for leaks	
		Oil control relief valve and tilt lock valve operation	
		Oil pressure piping for leakage, damage, and linkage for looseness	
		Hydraulic cylinder mounting and check for damage and looseness	
	Measure	Lifting speed	
		Hydraulic cylinder natural drop and forward tilt	
		Oil control valve relief pressure	
	Clean	Hydraulic oil tank and strainer	
Electrical System (Ignition, Starter, Wiring)	**Inspect**	Distributor cap for cracking	
		Spark plug gap and for signs of burning	
		Distributor side terminal for burning	
		Distributor cap center piece for damage	
		Starter pinion gear meshing	
		Battery electrolyte level (if battery isn't maintenance-free)	
		Electrical wiring harness for damage	
		Fuses	
		Ignition timing	
		Specific gravity of the battery (unless battery is maintenance-free)	
Safety Devices	**Inspect**	Overhead guard for cracked welds, damage, and deformation	
		Load backrest for damage, deformation, and looseness	
		All lights for operation and mounting condition	
		Horn for operation and mounting condition	
		Directional indicators (if equipped) for operation and mounting	
		Instruments for operation	
		Back-up buzzer (if equipped) for operation and mounting	
		Operator presence sensing system (OPSS) for function	
		Seat mounting for looseness and damage	

		Seat switch for operation	
		Seat belt mounting for looseness	
		Seat belt for damage to the webbing, plate, and buckle	
		Rear view mirror for dirt and damage and reflection	
		Frame, cross member and other structural components for damage, cracking, and wear	
		All bolts and nuts for looseness	

Notes