KOMATSU®

SHOP MANUAL

FG20/25/30-14
FG20H/25H/30H-14
FD20/25/30-14
FD20H/25H/30H-14
FD20J/25J/30J-14

KOMATSU FORKLIFT

MidWestTech | Komatsu FG20, FG25, FG30-14, FG20H, FG25H, FG30H-14, FD20, FG25, FG30-14, FD20H, FG25H, FG30H-14, FD20J, FG25J, FG30J-14 Forklift Service Manual | Publication BEB14E1-01

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	Abnormality / Cause	Defective starting: Engine does not start	Defective starting: Engine starts but then stops: Exhaust gas: None	Defective starting: Engine starts but then stops: Exhaust gas: Little	Defective starting: Engine starts but then stops: Exhaust gas: Large amount	Lack of engine output: Exhaust gas color: Normal	Lack of engine output: Exhaust gas color: White	Lack of engine output: Exhaust gas color: Black	Defective exhaust gas color: When operating: White	Defective exhaust gas color: When operating: Black	Excessive knocking during combustion	Abnormal noise from engine	Variation in combustion noise	Hunting: When idling	Hunting: When operating	Excessive vibration of engine	Poor return to low speed	Excessive fuel consumption	Lubricating oil: Excessive consumption	Lubricating oil: Dilution of oil by fuel	Lubricating oil: Water in oil	Lubricating oil: Low oil pressure	Excessive blowby	Coolant: Overheats	Coolant: Low water temperature	Air supply: Pressure drops	Air supply: Pressure rises	Exhaust temperature rises	Remedy
Lubricating system	Improper lubricating oil	○	○			○													○			○	○						Use proper lubricating oil
	Leakage from oil piping																		○			○							Repair
	Insufficient discharge from trochoid pump																					○							Check and repair
	Clogging of lubricating oil filter																					○	○						Clean or replace
	Defective pressure regulating valve																					○							Clean, adjust, or replace
	Lack of lubricating oil		○																			○							Add proper lubricating oil
Fuel system	Timing of fuel injection pump too advanced								○	○	○					○													Check and adjust
	Timing of fuel injection pump too retarded						○	○	○	○								○										○	Check and adjust
	Improper fuel					○	○	○	○	○			○																Use proper fuel
	Water in fuel system	○			○		○		○				○	○	○														Check and repair
	Clogged fuel filter	○	○			○																							Clean or replace
	Air in fuel system	○	○				○																						Bleed air
	Fuel pipe clogged, cracked	○	○			○																							Clean or replace
	Insufficient supply of fuel to fuel injection pump	○	○			○																							Check fuel tank valve, fuel filter, fuel pipe, fuel feed pump
	Uneven injection from fuel injection pump						○	○	○	○			○	○	○	○												○	Check and adjust
	Excessive fuel injection									○								○	○				○	○			○	○	Check and adjust
	Defective spray from fuel injection nozzle						○	○	○	○			○	○	○	○		○											Check and adjust
	Priming impossible	○																											Dirt caught in valve inside priming pump (disassemble and clean)
	Clogged strainer at fuel filter inlet port					○																							Clean strainer
Air, exhaust gas system	Clogged air filter				○			○		○			○														○			Clean
	Engine used at high ambient temperature or high altitude							○		○								○						○			○			Use high-output engine
	Clogged exhaust pipe							○		○			○															○		Clean
Electrical system	Defective starting motor	○																												Repair or replace
	Defective alternator	○																												Repair or replace
	Disconnected wiring	○																												Repair
	Drop in battery voltage	○																												Charge

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