YANMAR

SERVICE MANUAL

INDUSTRIAL ENGINES

3TNM68
3TNM72

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Section 2

YANMAR WARRANTIES

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	Trouble Symptom / Cause	Starting Problem: Engine Does Not Start.	Starting Problem: Engine Starts but Stops Soon. – Exhaust Smoke: None	Starting Problem: Engine Starts but Stops Soon. – Exhaust Smoke: Little	Starting Problem: Engine Starts but Stops Soon. – Exhaust Smoke: Much	Insufficient Engine Output – Exhaust Color: Ordinary	Insufficient Engine Output – Exhaust Color: White	Insufficient Engine Output – Exhaust Color: Black	Poor Exhaust Color – During Work: White	Poor Exhaust Color – During Work: Black	High Knocking Sound During Combustion	Abnormal Engine Sound	Uneven Combustion Sound	Engine Surging: During Idling	Engine Surging: During Work Operation	Excessive Engine Vibration	Difficulty in Returning to Low Speed	Excessive Fuel Consumption	Engine Oil: Excessive Oil Consumption	Engine Oil: Dilution by Diesel Fuel	Engine Oil: Oil with Water	Engine Oil: Low Oil Pressure	Excessive Blow-by Gas	Engine Coolant: Overheat	Engine Coolant: Low Water Temperature	Air Intake: Pressure Drop	Air Intake: Pressure Rise	Exhaust Temperature Rise	Corrective Action	Reference Page
Engine Coolant System	Excessive Radiator Cooling								O									O							O				See "Disassembly of Engine Coolant Pump" on page 8-7.
	Insufficient Radiator Cooling							O															O					O	Replace Thermostat or Check for Loose Fan Belt.	See "Disassembly of Engine Coolant Pump" on page 8-7. or Check and Adjust Cooling Fan V-Belt on page 5-27
	Insufficient Engine Coolant Level							O															O					O	Check Water Leakage from Engine Coolant System.	See "Engine Coolant System Check" on page 8-7.
	Cracked Water Jacket																			O	O		O						Repair or Replace.	See "Disassembly of Engine Coolant Pump" on page 8-7.
	Stretched Fan Belt							O															O					O	Adjust the Belt Tension.	See "Check and Adjust Cooling Fan V-Belt" on page 5-20.
	Defective Thermostat							O	O														O	O					Check or Replace.	See "Disassembly of Engine Coolant Pump" on page 8-7.
Engine Oil System	Incorrect Engine Oil	O	O			O												O			O	O							Use Correct Engine Oil.	See "Engine Oil Specifications" on page 4-14.
	Engine Oil System Leakage																	O			O								Repair.	See "Disassembly of Oil Pump" on page 9-7.
	Insufficient Delivery Capacity of Trochoid Pump																				O								Check and Repair.	See "Disassembly of Oil Pump" on page 9-7.
	Clogged Engine Oil Filter																				O	O							Clean or Replace.	See "Replace Engine Oil and Engine Oil Filter" on page 5-26.
	Defective Pressure Regulating Valve																				O								Clean, Adjust or Replace.	See "Disassembly of Oil Pump" on page 9-7.
	Insufficient Engine Oil Level		O																		O								Add Correct Engine Oil.	See "Adding Engine Oil" on page 4-15.
	Overfilled Engine Crankcase																				O								Check Engine Oil	See "Checking Engine Oil" on page 4-15.

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