TROUBLESHOOTING

If a problem occurs, stop the engine immediately. Refer to the SYMPTOM column in the Troubleshooting Chart to identify the problem.

CAUTION

If any indicator fails to illuminate when the key switch is in the ON position, see your authorized Yanmar industrial engine dealer or distributor for service before operating the engine.

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CAUTION

If any indicator illuminates during engine operation stop the engine immediately. Determine the cause and repair the problem before you continue to operate the engine.

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TROUBLESHOOTING CHART

SYMPTOM	PROBABLE CAUSE	ACTION	REFER TO		
Indicator Turns On - Engine Running					
Engine oil pressure indicator	Low level of engine oil Too high an oil level	Check and adjust oil level as necessary	Checking Engine Oil on page 38		
	Clogged engine oil filter	Replace engine oil filter	Replace Engine Oil and Engine Oil Filter on page 75		

TROUBLESHOOTING

SYMPTOM	PROBABLE CAUSE	ACTION	REFER TO
Indicator Turns On - Engine	Running		
Engine coolant indicator	Low engine coolant level	Add engine coolant	Filling Radiator With Engine Coolant on page 42
	Dirty radiator fins	Clean the radiator fins	Check and Clean Radiator Fins on page 85
	Engine coolant leaking	See authorized Yanmar industrial engine dealer or distributor	_
	V-belt loose or damaged	Adjust V-belt or replace	Check and Adjust Cooling Fan V-belt on page 86
	Contaminated engine coolant	See authorized Yanmar industrial engine dealer or distributor	_
	Faulty engine coolant pump		_
Battery Indicator	V-belt loose or damaged	Adjust V-belt or replace	Check and Adjust Cooling Fan V-belt on page 86
	Battery failure	Check battery condition	Check Battery on page 82
	Faulty alternator	See authorized Yanmar industrial engine dealer or distributor	_
Indicator Does Not Turn ON	- Key Switch is Turned to ON	(OFF → ON) - Engine Not Run	ning
	Faulty electrical wiring or faulty indicator	See authorized Yanmar industrial engine dealer or distributor	_
Indicator Stays On - Key Swi	tch is Turned from Start to O	N (START $ ightarrow$ ON) - Engine Not	Running
Battery indicator stays ON	Faulty alternator	See authorized Yanmar	_
Engine oil pressure indicator stays ON	Faulty engine oil pressure switch	industrial engine dealer or distributor	_
	No or Low level of engine oil	Check and adjust oil level as necessary	Checking Engine Oil on page 38
	Clogged engine oil filter	Replace engine oil filter	Replace Engine Oil and Engine Oil Filter on page 75
Engine Does Not Start			
Starter motor operates but engine does not start	No diesel fuel	Refuel and prime fuel system	Filling The Fuel Tank on page 34
	Air in fuel system	Prime fuel system	Priming The Fuel System on page 36
	Improper diesel fuel	Replace with recommended diesel fuel	Diesel Fuel Specifications on page 33
	Clogged fuel filter	Replace fuel filter	Replace Fuel Filter on page 89
	Poor fuel injection	See authorized Yanmar industrial engine dealer or distributor	
	Compressed air leakage from intake / exhaust valves		_
	Faulty engine stop solenoid		_

TNV Operation Manual

TROUBLESHOOTING

SYMPTOM	PROBABLE CAUSE	ACTION	REFER TO
Starter motor does not operate or rotates too slowly (engine can be turned manually)	Battery needs charging	Check electrolyte, recharge	Check Battery on page 82
	Faulty cable connection at battery terminals	Clean terminals, retighten	_
	Faulty starter switch	See authorized Yanmar industrial engine dealer or distributor	_
	Faulty starter motor		_
Engine cannot be manually turned	Inner parts seized or damaged		_
White or Black Exhaust Smo	ke		
Black exhaust smoke	Engine overloaded	Reduce load	_
	Clogged air cleaner element	Clean element or replace	Clean Air Cleaner Element on page 87
	Improper diesel fule	Replace with recommended diesel fuel	Diesel Fuel Specifications on page 33
	Faulty spraying of fuel injection	See authorized Yanmar industrial engine dealer or distributor	_
	Excessive intake / exhaust valve clearance		_
White exhaust smoke	Improper diesel fule	Replace with recommended diesel fuel	Diesel Fuel Specifications on page 33
	Faulty spray pattern of fuel injection	See authorized Yanmar industrial engine dealer or distributor	_
	Fuel injection timing delay		_
	Engine burning oil		_

TROUBLESHOOTING INFORMATION

If your engine does not operate properly, refer to the troubleshooting chart or consult your authorized Yanmar industrial engine dealer or distributor.

Supply the authorized Yanmar industrial engine dealer or distributor with the following information:

- · Model name and serial number of your engine
- The driven machine type (tractor, generator, skid steer loader), manufacturers name, model and serial number
- How long the engine has been in service (the number of engine hours or the number of calendar months)
- · Operating conditions when problem occurs:
 - ◆ Engine rpm
 - ◆ Color of exhaust smoke
 - ◆ Type of diesel fuel
 - ◆ Type of engine oil
 - ◆ Any abnormal noises or vibration
 - ◆ Operating environment such as high altitude or extreme ambient temperatures, etc.
- Engine maintenance history and previous problems
- · Other factors that contribute to the problem