

7.1 Diagnosis Chart

- Faults are often caused by maloperation of the engine or failure to service the engine.
- In the event of a fault, always check whether the operating and servicing regulations have been adhered to.
- A corresponding fault table can be found on the adjacent page.
- If you cannot ascertain the cause of a fault or cannot rectify the fault, please contact DEUTZ SERVICE.

7.1 Diagnosis Chart

Faults, Causes and Remedies

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Fault										Remedy		
Engine fails or is difficult to start										Check	P	
Engine starts but runs unevenly or stalls										Adjust	E	
Engine overheats. Temperature monitor gives warning										Replace	W	
Engine gives poor performance										Clean	R	
Engine not firing on all cylinders										Top up	A	
Engine has little or no oil pressure										Lower level	S	
Engine oil consumption excessive												
Engine smokes – blue												
– white												
– black												
Cause										Section		
●										Not declutched (where possible)	Operation	P
●								●		Below starting limit temperature		P
		●						●		Oil level too low		A
		●	●				●	●		Oil level too high		P
							●	●	●	Excessive inclination of engine		S
●							●			Incorrect lube oil SAE class or quality	Operating media	W
●	●		●						●	Fuel quality not as per operating manual		W
		●	●						●	Air cleaner clogged / turbocharger defective	Combustion air	P / W
		●	●						●	Air cleaner service switch / indicator defective		P / W
									●	LDA* defective		P
			●						●	Charge air line leaking		P
		●								Oil cooler panels clogged	Cooling system	P / R
		●								Cooling fan defective, split or loose V-belt		P / W
		●								Cooling air temperature rise / heating short circuit		P
		●								Resistance in cooling system too great / through-flow quantity too small		P
●										Battery defective or discharged	Electrics	P / A

* LDA = Aneroid device

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										– black		
										Cause	Section	
●										Electric cable connections to starter electrical system loose or oxidized	Electrics	P
●										Starter defect or pinion does not engage		P
●										Solenoid defective (release switch)		P
●	●		●				●	●		Incorrect valve clearance	Engine	E
	●		●	●						Leaking injection line		P
●	●	●	●	●			●	●		Injection valve defective		P / W