TURBO

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TURBOCHARGER FAULT DIAGNOSIS

		O S S S S S S S S S S S S S S S S S S S				10 10 10 10 10 10 10 10 10 10 10 10 10 1	Se of Strain	\$\\ \forall \f	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CAUSE	REMEDY
					W	V		 ✓		Dirty Air Cleaner	Clean or replace element according to manufacturer's recommendations
					V		✓			Restricted compressor intake duct	Remove restriction or replace damaged parts as required
	V			\bigcirc			V			Restricted air duct from compressor to intake manifold	Replace seals, gaskets or tighten fasteners as required
	✓		✓	\checkmark						Restricted intake manifold	Refer to engine manufacturer's manual and remove restriction
										Air leak in feed from air cleaner to compressor	Replace seals, gaskets or tighten fasteners as required
	V	✓	V	✓	4	V	₹			Air leak in feed from compressor to intake manifold	Replace seals, gaskets or tighten fasteners as required
										Air leak between intake manifold and engine	Refer to engine manufacturer's manual and replace gaskets or tighten fasteners as required
			\checkmark	\checkmark	<u> </u>					Foreign object in exhaust manifold (from engine)	Remove restriction or replace damaged parts as required
										Restricted exhaust system	Refer to engine manufacturer's manual and replace gaskets or damaged parts as required
		\checkmark	\checkmark	✓			✓			Exhaust manifold cracked gaskets blown or missing	Replace gasket or tighten fasteners as required
_										Gas leak at turbine inlet/exhaust manifold joint	Refer to engine manufacturer's manual and repair leak
	\checkmark						lacksquare			Gas leak in ducting after turbine outlet	Remove restriction or replace damaged parts as required
_										Restricted turbocharger oil drain line	Refer to engine manufacturer's manual, clear restriction
						\bigcirc		\bigcirc		Restricted engine crankcase breather	Change engine oil and oil filter, overhaul or replace turbocharger as required
					\bigcirc					Turbocharger bearing housing sludged or coked	Refer to engine manufacturer's manual and replace or adjust faulty components as required
										Fuel injection pump or fuel injectors incorrectly set	Refer to engine manufacturer's manual for correct settings and adjust as required
				\bigcirc						Engine valve timing incorrect	Refer to engine manufacturer's manual and repair as required
										Worn engine piston rings or liners	Refer to engine manual and repair as required
_										Burnt valves and/or pistons	Refer to engine manufacturer's manual and repair as required
										Excessive dirt build-up on impeller and/or diffuser vanes	Clean in accordance with the appropriate SCM repair manual
										Turbocharger damaged	Find and correct cause of failure, repair or replace turbocharger as necessary – contact SCM
										Failed diaphragm	Replace using correct Actuator Service Kit – contact SCM
										Siezed valve	Free valve/replace complete turbine housing sub-assembly – contact SCM
										Leaking hose	Replace hose and clips
										Wastegate mechanism set incorrectly	Contact SCM

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