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ENGINE REPAIR MANUAL

667TA/EEG

667TA/EEC

667TA/EBF

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Revision History			
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First Edition	11-2006	667TA/EEG 667TA/EEC 667TA/EBF 667TA/EED 667TA/EBJ 667TA/EDJ	87519804 NA

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CHAPTER 1

**667TA
TIER III**

DIAGNOSTICS

Issued 11-2006

Book/Form Number 87519804 NA

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ENGINE REPAIR MANUAL
CHAPTER 1 - DIAGNOSTICS

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First Edition	11-2006	667TA/EEG 667TA/EEC 667TA/EBF 667TA/EED 667TA/EBJ 667TA/EDJ	87519804 NA

CHAPTER 1

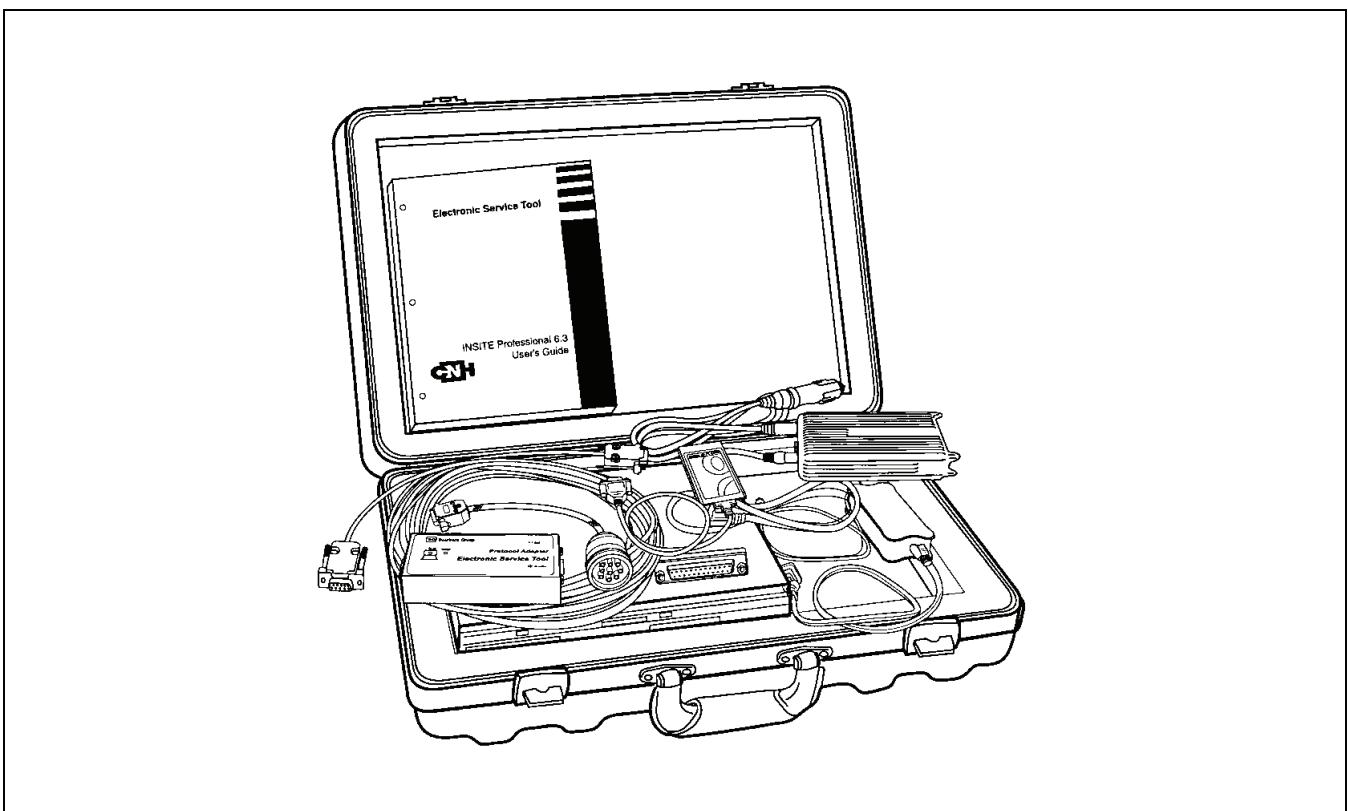
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CNH- EST DIAGNOSTIC TOOL



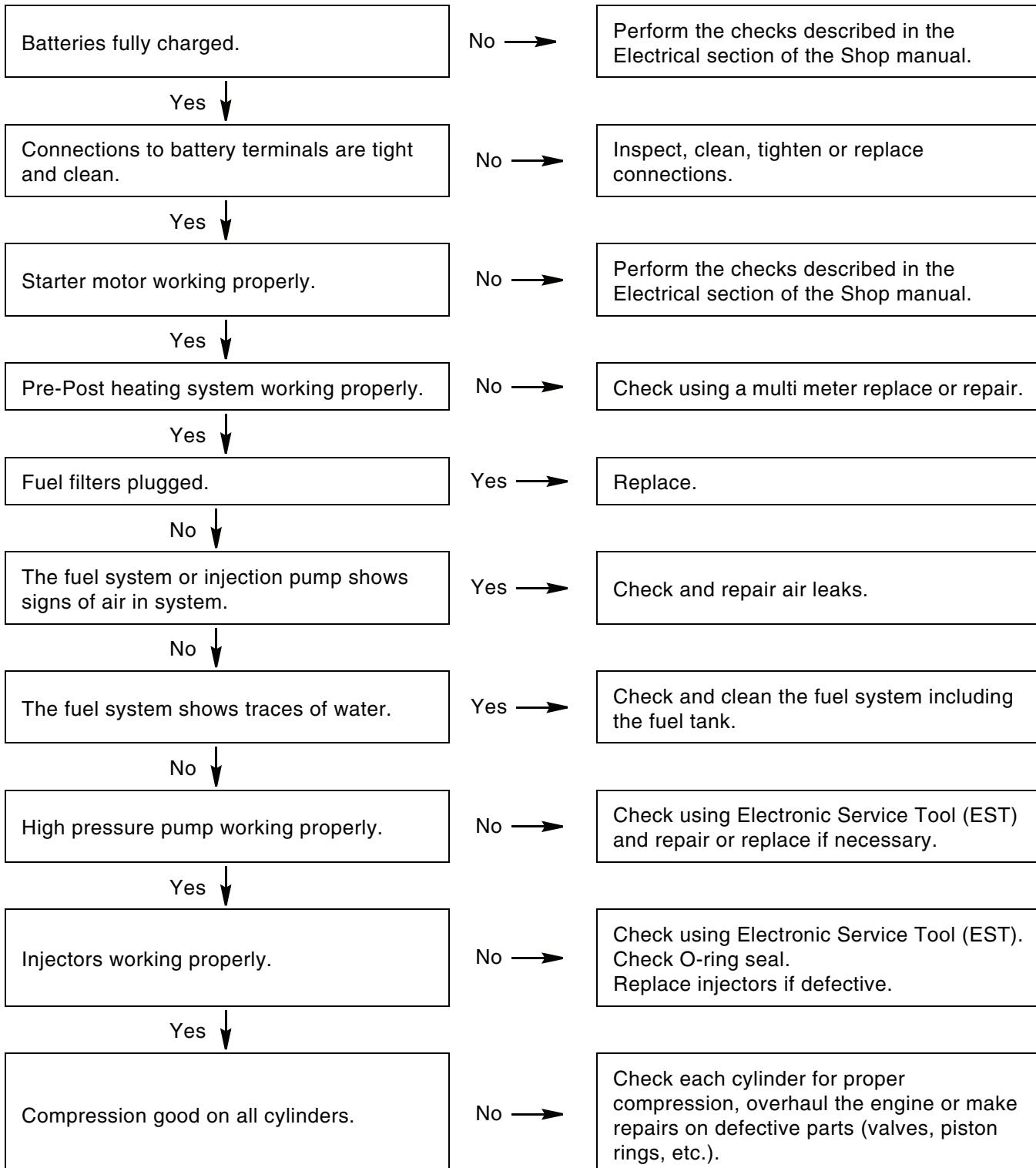
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Figure 1-1

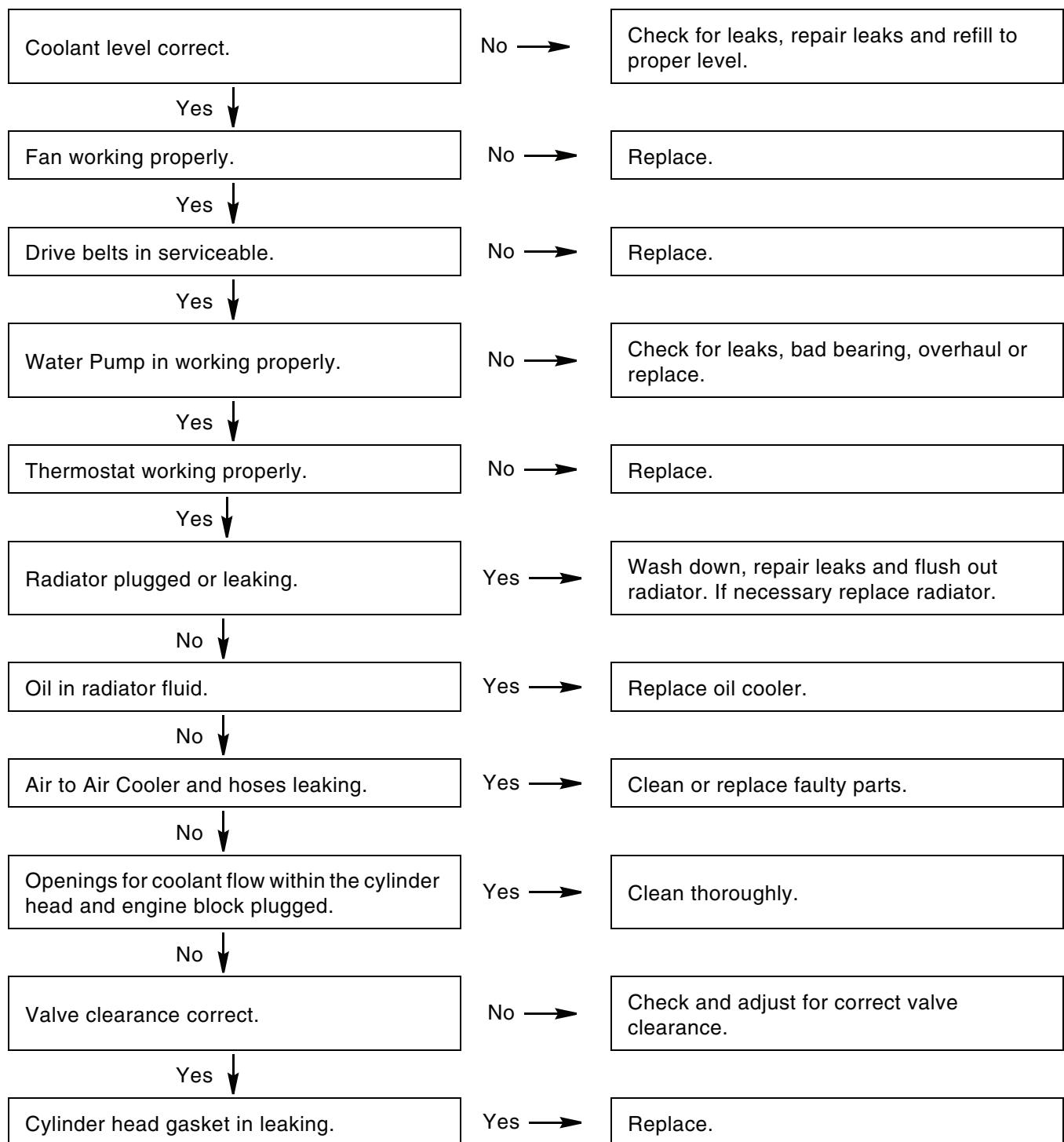
The EST system allows diagnoses on machines by detecting the operating parameters of electronic control components (control units, sensors etc.) and check flow rates, pressures and temperatures. It is also capable of reading fault codes on the engine. To help with troubleshooting the engine failure mode.

TROUBLESHOOTING

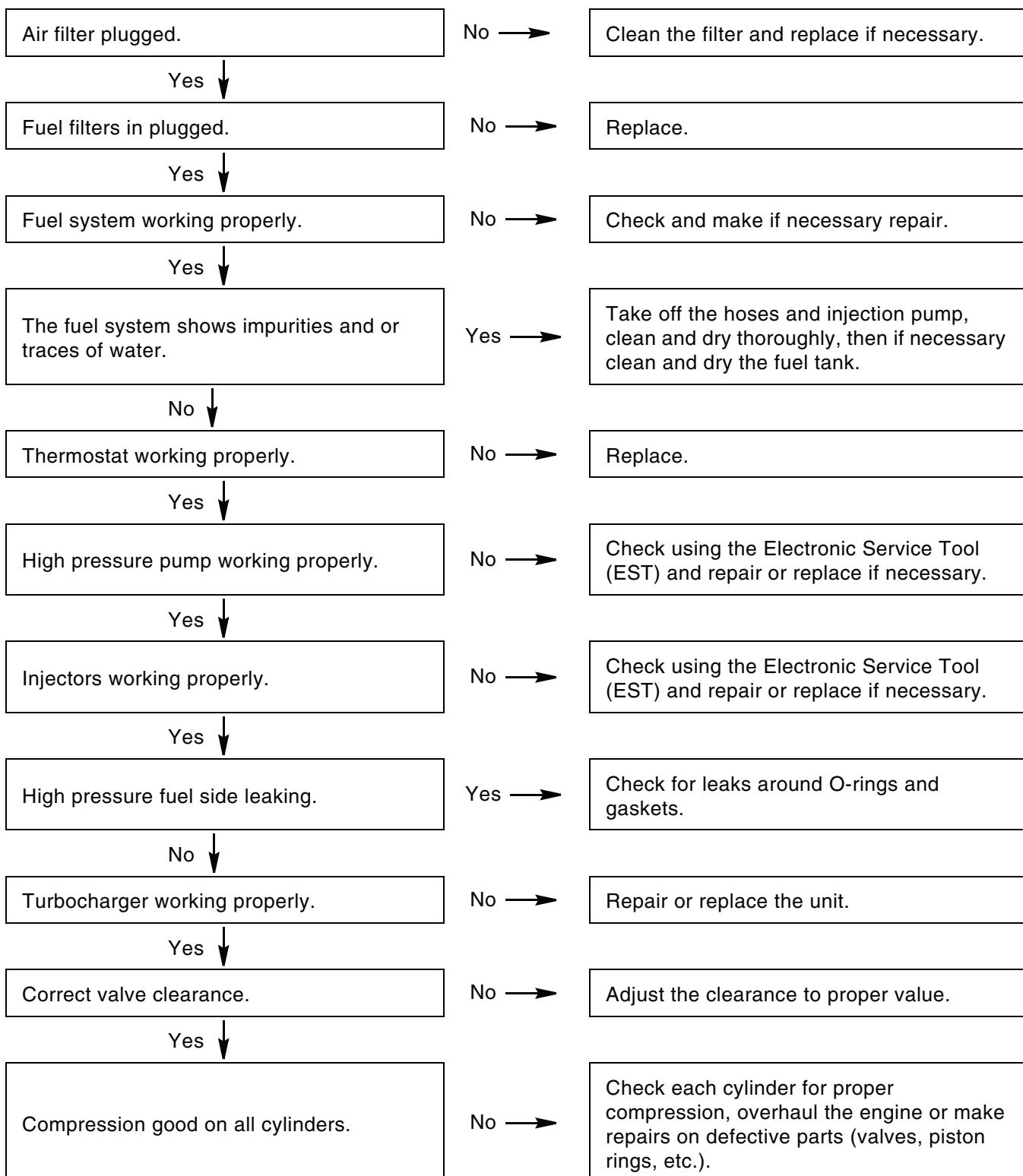
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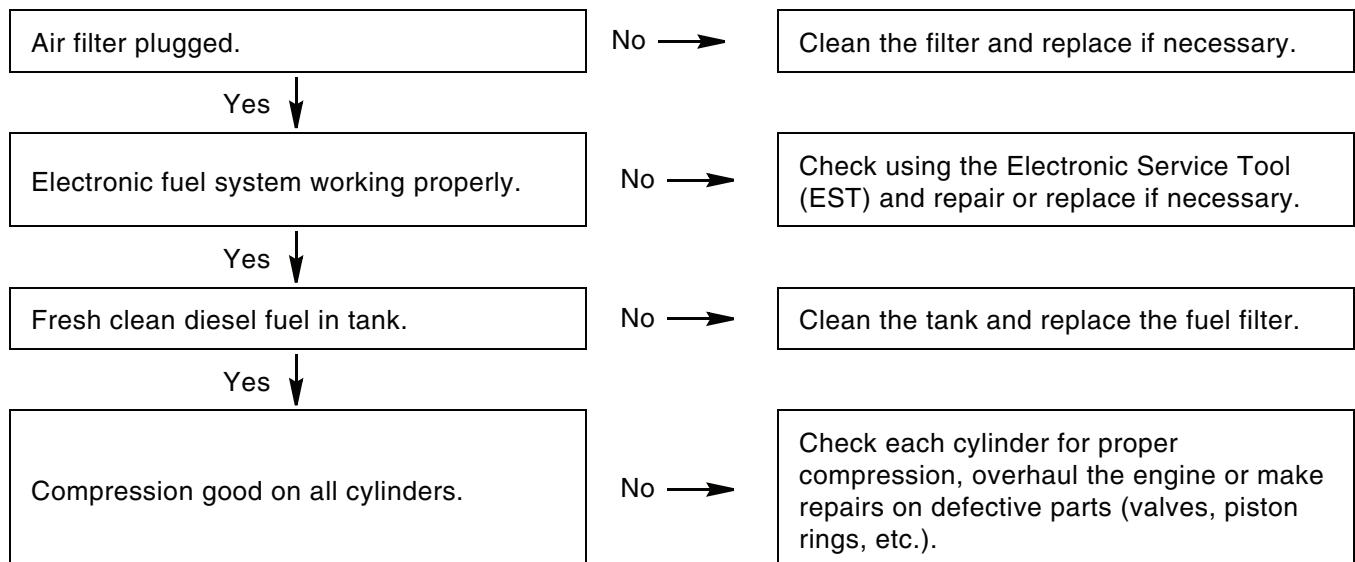
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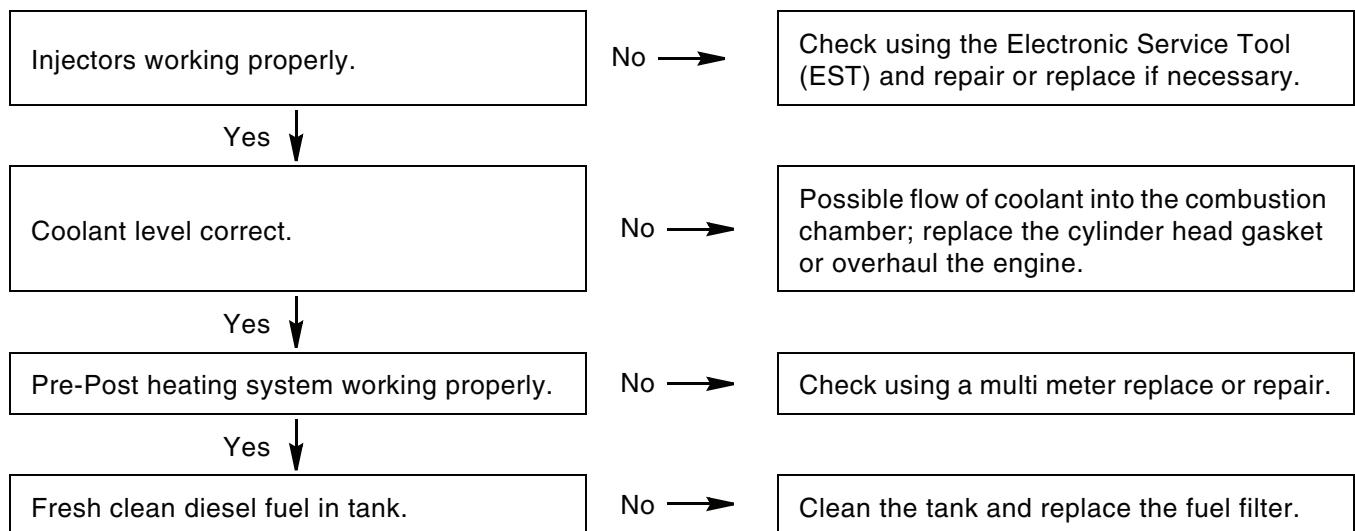
ENGINE LACKS POWER AND RUNS ERRATICALLY



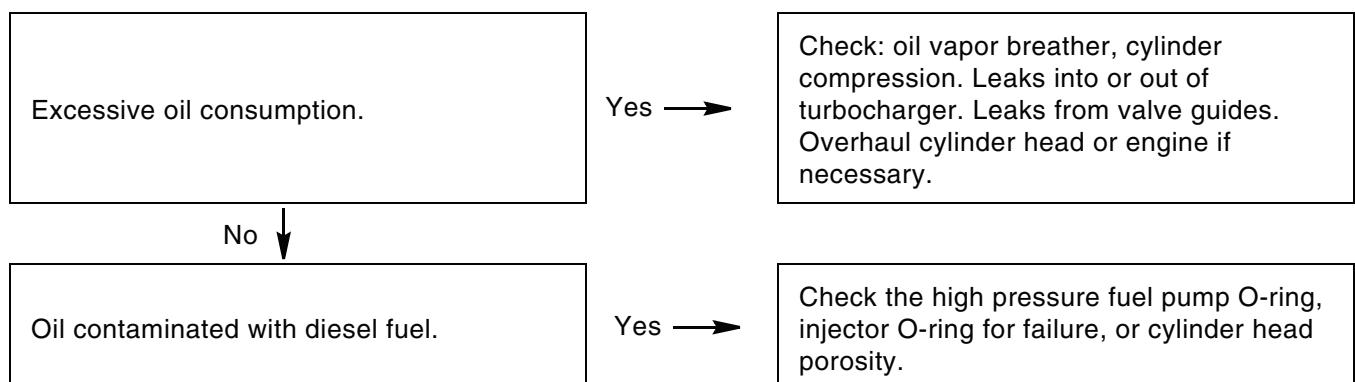
ENGINE EXHAUST SMOKE BLACK OR DARK GREY



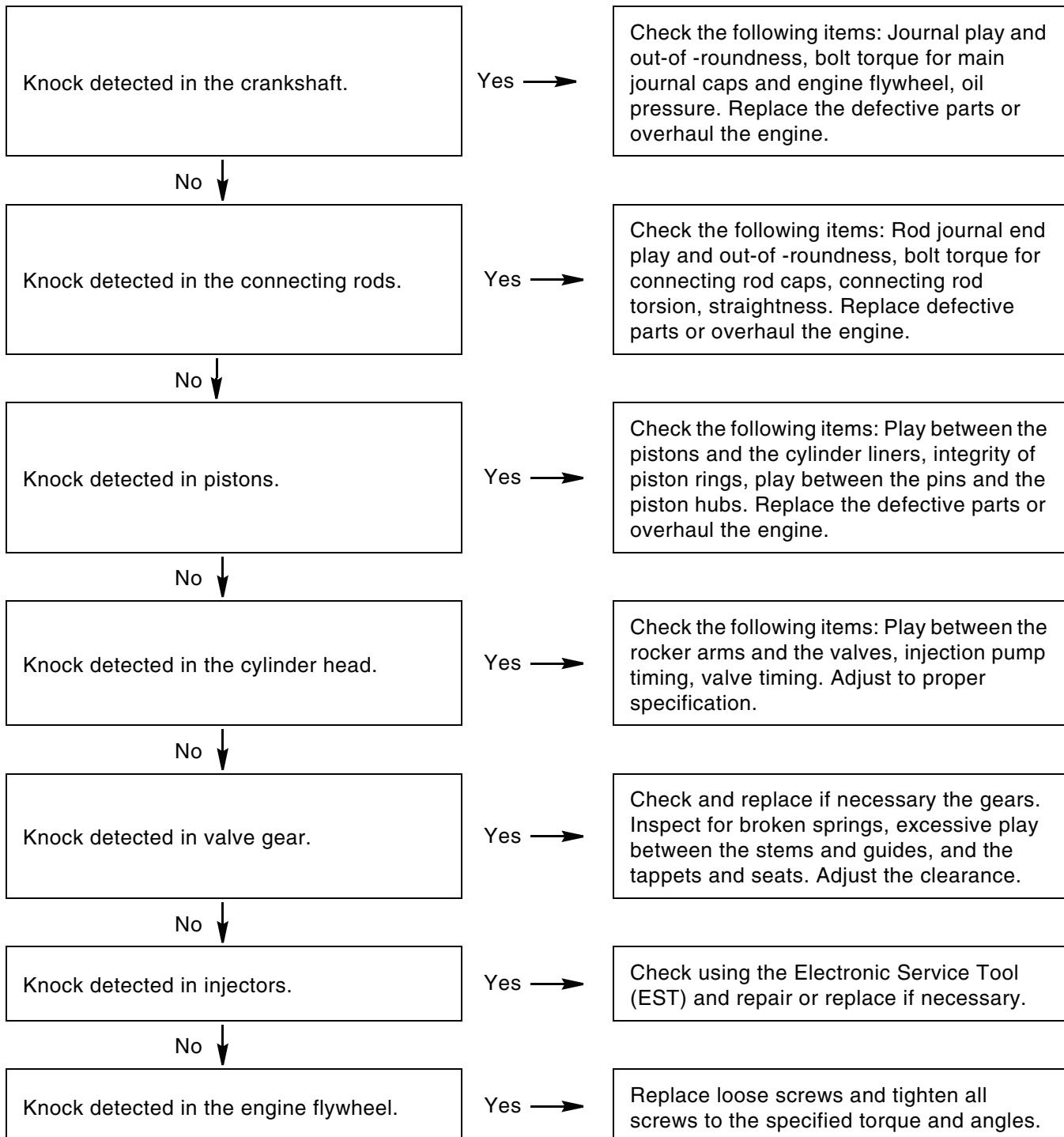
ENGINE EXHAUST SMOKE GREY (VERGING ON WHITE)



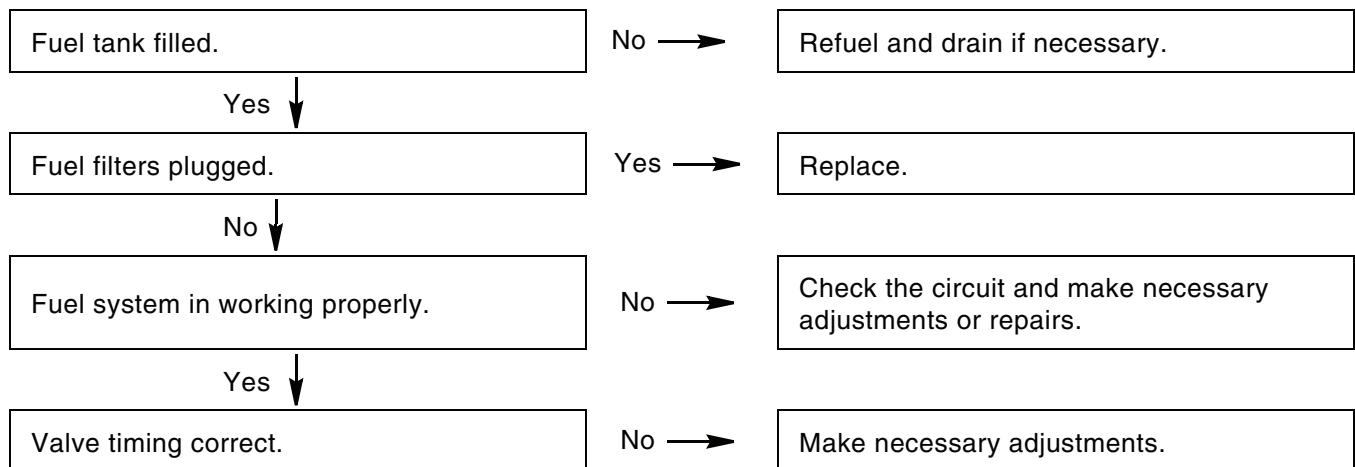
ENGINE EXHAUST SMOKE LIGHT BLUE



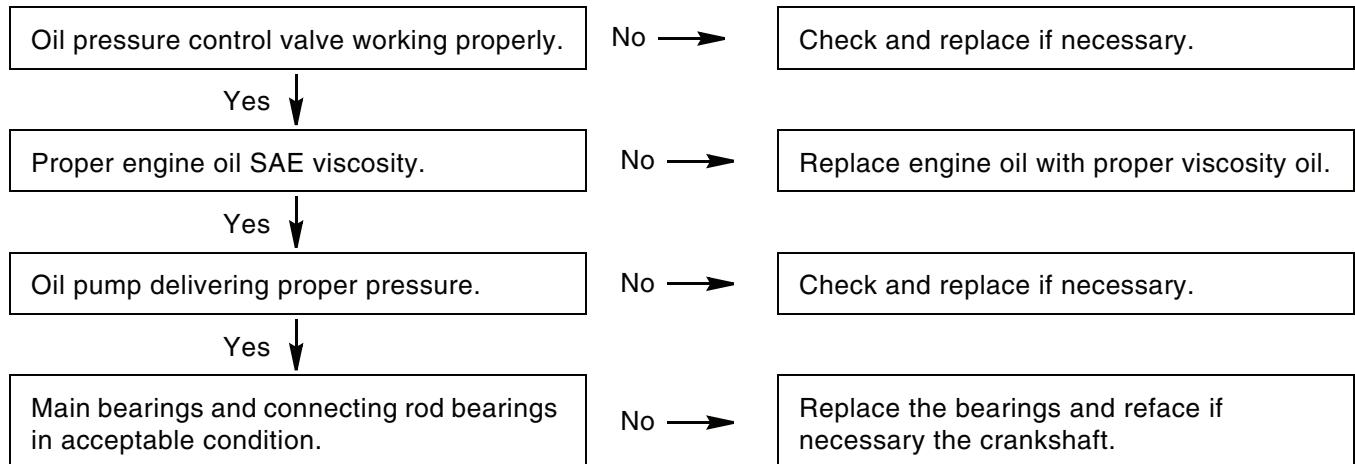
ENGINE KNOCKS IRREGULARLY



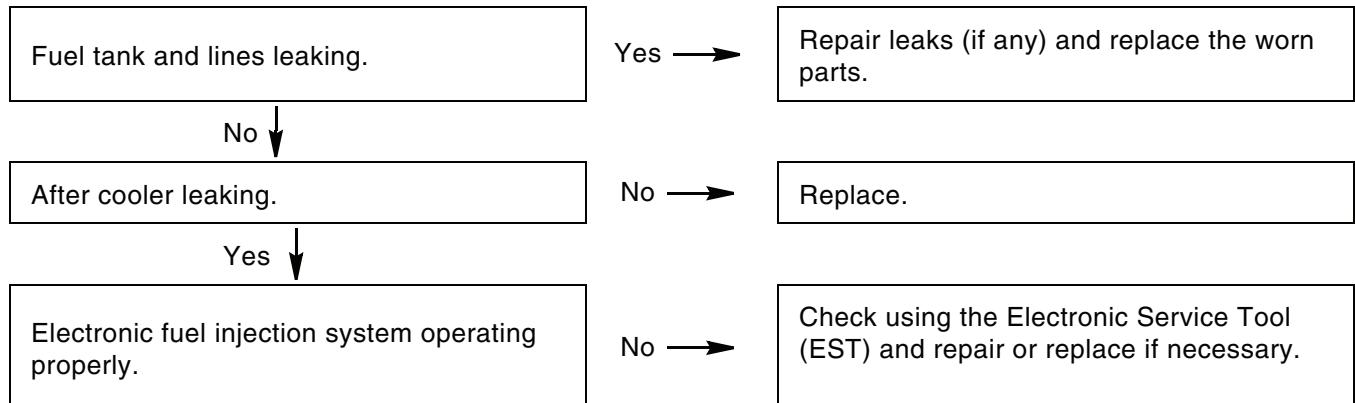
ENGINE STOPS



EXCESSIVE OR INSUFFICIENT OIL PRESSURE



EXCESSIVE FUEL CONSUMPTION



NOTES

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**667TA
TIER III**

667TA ENGINE OVERHAUL

ENGINE REPAIR MANUAL
CHAPTER 2 - 667TA ENGINE OVERHAUL

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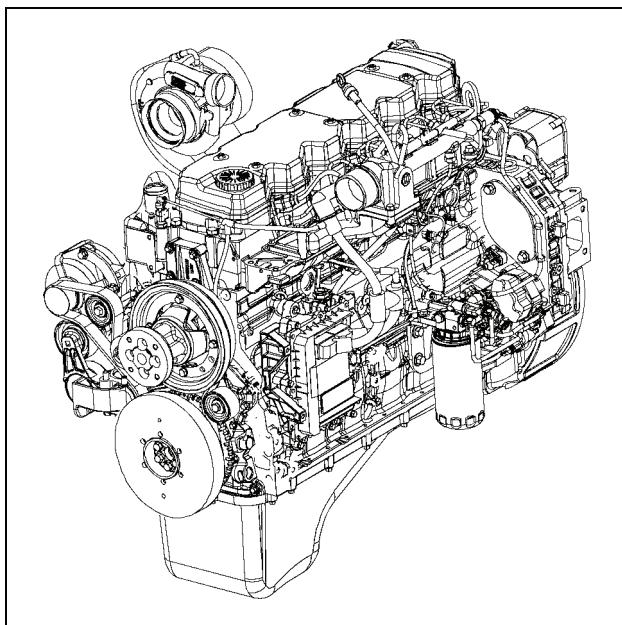
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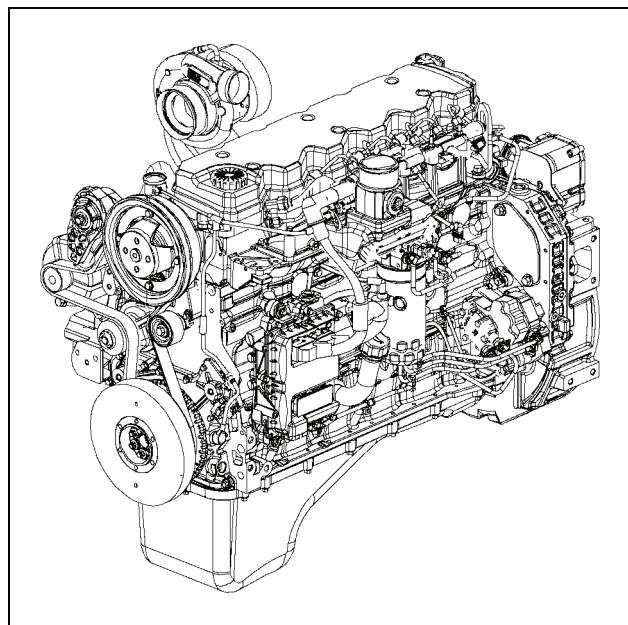
ENGINES



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Figure 2-1

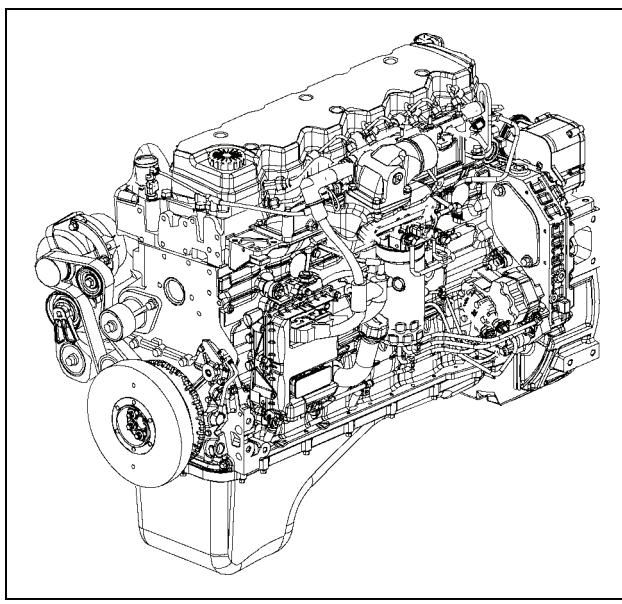
ENGINES: 667TA/EEG - 667TA/EEC



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Figure 2-3

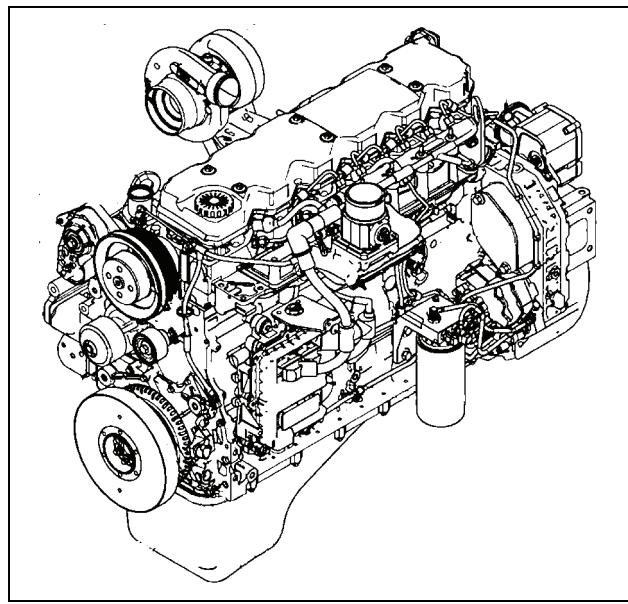
ENGINES 667TA/EED - 667TAEBF



BS06K012

Figure 2-2

ENGINES 667TA/EED - 667TAEBD



BS06K628

Figure 2-4

ENGINE 667TA/EDJ

CODING OF SOURCE ENGINES

ENGINE MODEL BREAKDOWN DISCRIPTION

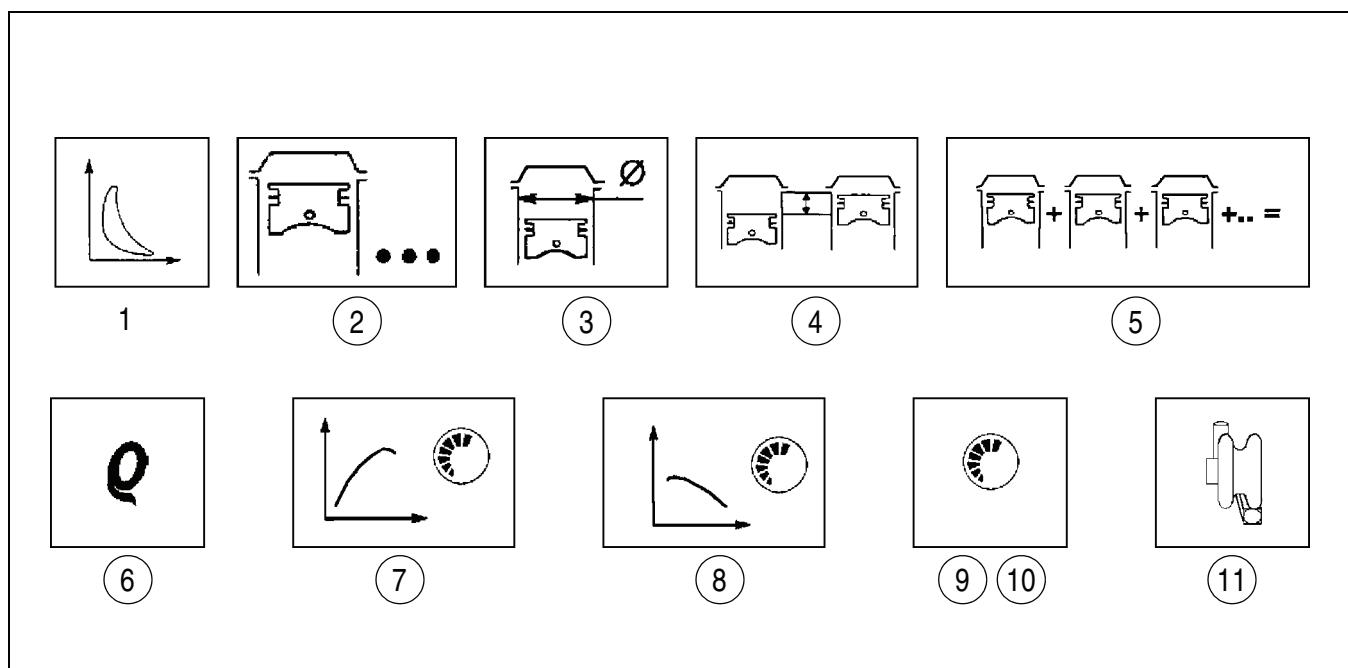
6	6	7	T	A	E	D	J
							Engine Calibration (Power) (D) J= 97 kW (130 H.P.) (E) G= 137 kW (183.7 H.P.) (E) D= 145 kW (194.4 H.P.) (E) C= 148 kW (198.5 H.P.) (B) F= 157 kW (210.5 H.P.) (B) D= 169kW (226.6 H.P.)
							Compression Ratio B = 16.5:1 > 130 kW (174 H.P.) D = 17.5:1 < 130 kW (174 H.P.) E = 17.5:1 > 130kW (174 H.P.)
							E = Electronic Injection (Common Rail)
							A = Intercooled
							T = Turbocharged
							67 = Total Displacement in Liters/ Cubic Inches- 6.7 Liters (409 Cubic Inches)
							6 = Number of Cylinders

ENGINE PROPERTIES

A	667TA	667TA	667TA	667TA	667TA	667TA
B	EEG	EEC	EBF	EED	EBD	EDJ
C	6 CYLINDERS					
D	6728 cm ³ (410.6 c.i.)					
E	137 kW (183.7 h.p.) 2100 rpm	148 kW (198.5 h.p.) 2100 rpm	157kW (210.5 h.p.) 2000 rpm	145kW (194.4 h.p.) 2000 rpm	169 kW (226.6 h.p.) 2000 rpm	97 kW (130.1 h.p.) 2200 rpm
F	Electronic Direct Injection					
G	Common Rail					
H	T.A.A. (Turbo Charged, Air to Air Cooling)					

- A. Type of engine
- B. Engine model
- C. Number of cylinders
- D. Total displacement
- E. Maximum power currently available
- F. Type of Injection
- G. Injection system
- H. Air supply system

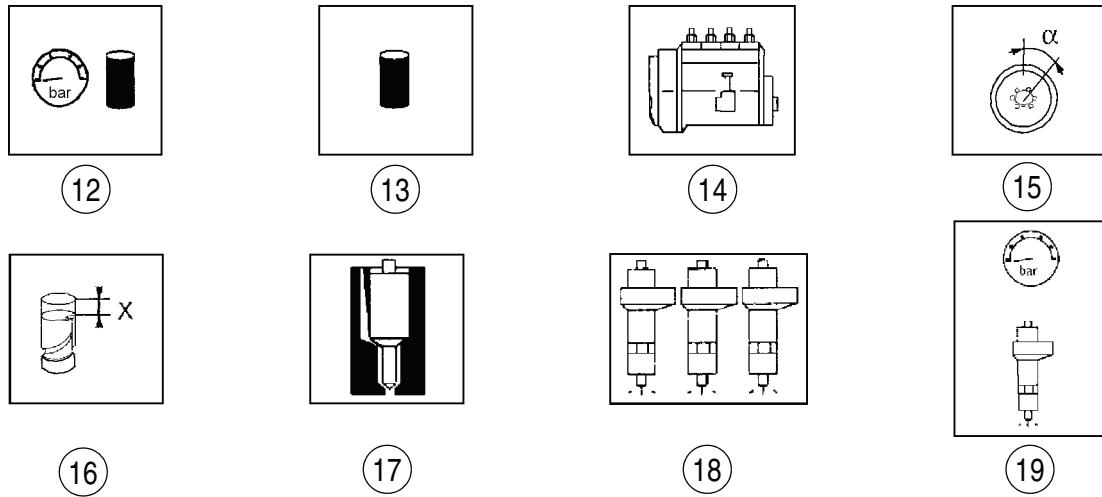
GENERAL ENGINE FEATURES



BS06K013

Figure 2-5

REF. NO.	ENGINE TYPE	667TA					
		EEG	EEC	EBF	EED	EBD	EDJ
1	Cycle	4- Stroke diesel engine					
	Air	T.A.A. (Turbo charged, Air to Air cooling)					
	Injection	Direct					
2	Number of cylinders	6 in-line					
3	Bore	104 mm (4.1 inches)					
4	Stroke	132 mm (5.2 inches)					
5	Total displacement	6728cm ³ (410.6 cubic inches)					
6	Compression ratio						
7	Maximum power rating (net power at flywheel ISO 14396)	137 kW	148 kW	157 kW	145 kW	169 kW	97 kW
		2100 rpm	2100 rpm	2000 rpm	2000 rpm	2000 rpm	2200 rpm
		184 hp	198 hp	211 hp	194 hp	227 hp	130 hp
		2100 rpm	2100 rpm	2000 rpm	2000 rpm	2000 rpm	2200 rpm
8	Maximum Torque	710 Nm	810 Nm	952 Nm	860 NM	1002 Nm	607 Nm
		1400 rpm	1400 rpm	1400 rpm	1400 rpm	1400 rpm	1400 rpm
		524 pound feet	597 pound feet	702 pound feet	634 pound feet	739 pound feet	607 pound feet
		1400 rpm	1400 rpm	1400 rpm	1400 rpm	1400 rpm	1400 rpm
9	No-load idle	700 rpm					
10	No-load peak rpm						
11	Boosting (type of turbocharger)	With intercooler HOLSET HX35					

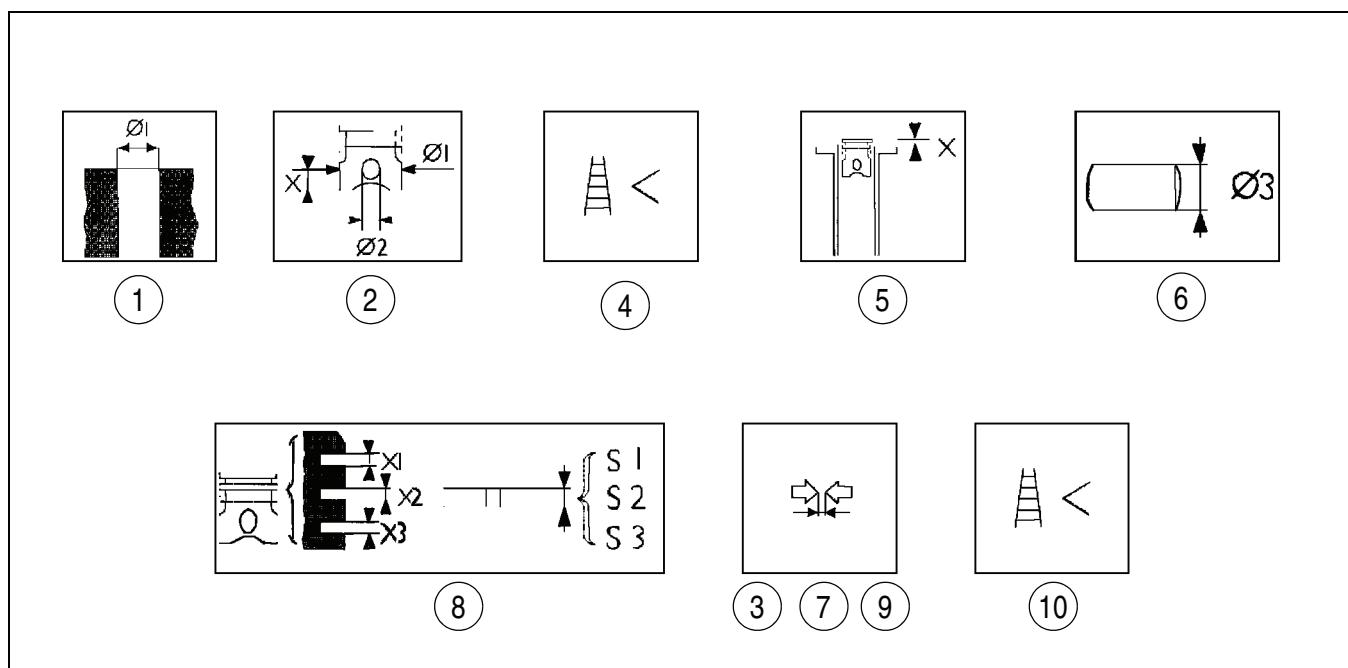


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Figure 2-6

REF. NO.	ENGINE TYPE	667TA									
		EEG	EEC	EBF	EED	EBD	EDJ				
12	Lubrication.	Forced by means of gear pump. Oil psi control valve.									
	Oil pressure with hot engine: at idle rpm.	1.2 bar (17.4 psi)									
	Oil pressure with hot engine: at peak rpm.	3.8 bar (55.1 psi)									
13	Cooling.	Fluid									
	Water pump drive.	Belt									
	Thermostat start of opening temperature.	79 to 83° C (174 to 181° F)					83 to 98° C (181 to 208° F)				
14	Oil capacity 1st filling.	No Information Available		No Information Available							
	Oil capacity engine sump.	No Information Available		No Information Available							
	Oil capacity engine sump + filter.	17 litres (18 qt.)		19 litres (20 qt.)							
15	Feeding Bosch-type injection	High pressure Common Rail									
16	Pump setting	No Information Available									
17	Start of delivery	No Information Available									
18	Type of injector	CRIN 1		CRIN 2		CRIN 2					
19	Injection sequence	1 - 5 - 3 - 6 - 2 - 4									
20	Injection pressure	--	250 - 1600 bar	250 - 1400 bar	250 - 1600 bar	--					
		--	3626 - 23206 psi	3626 - 20305 psi	3626 - 23206 psi	--					

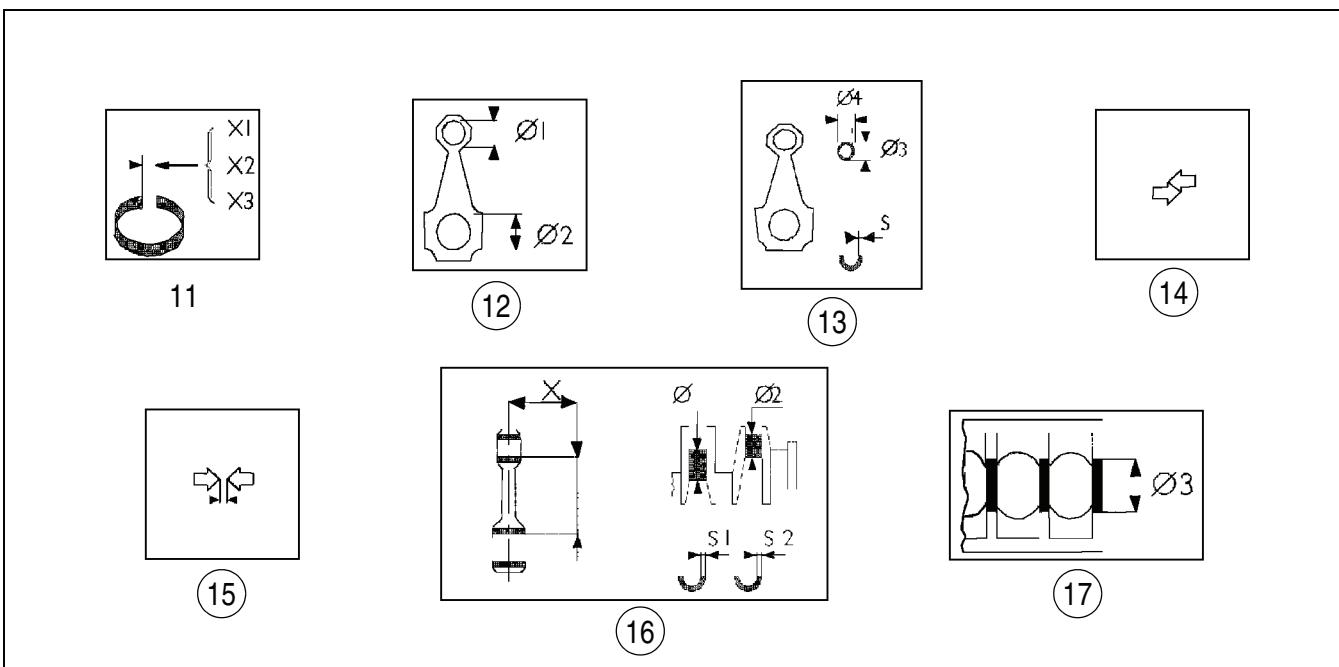
CRANK GEAR COMPONENTS AND CYLINDER ASSEMBLY



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Figure 2-7

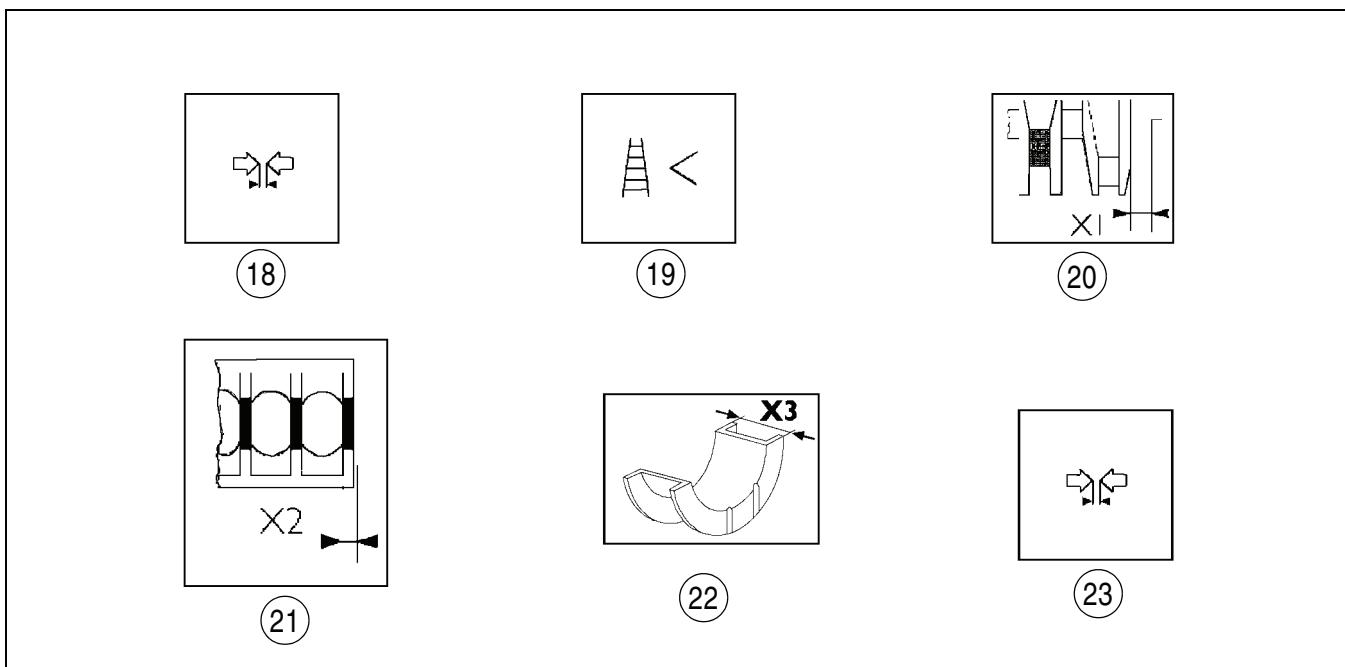
REF. NO.	ENGINE TYPE	667TA					
		EEG	EEC	EBF	EED	EBD	EDJ
1	Cylinder liners.	104.000 to 104.024 mm. (4.0945 to 4.0954 in.)					
2	Pistons:	Supplied as spares					
	Measurement dimension.	$X = 49.5$ mm. (1.948813 in.)					
	Outer diameter.	$\emptyset 1 = 103.759$ to 103.777 mm. (4.0850 to 4.0857 in.)					
	Pin seat.	$\emptyset 2 = 38.010$ to 38.016 mm. (1.4965 to 1.4967 in.)					
3	Piston - cylinder liners.	0.235 to 0.273 mm. (0.0093 to 0.0107 in.)					
4	Piston diameter.	$\emptyset = 0.4$ mm. (0.0157 in.)					
5	Protrusion of pistons from crankcase.	No Information Available					
6	Piston pin.	$\emptyset 3 = 37.994$ to 38.000 mm. (1.4958 to 1.4961 in.)					
7	Piston pin-Pin seat.	0.01 to 0.022 mm. (0.0004 to 0.0009 in.)					
8	Piston ring grooves (measured on \emptyset of 101 mm 3.976366 in.)	$X1 = 2.705$ to 2.735 mm. (0.1065 to 0.1077 in.)					
		$X2 = 2.420$ to 2.440 mm. (0.0953 to 0.0961 in.)					
		$X3 = 4.03$ to 4.05 mm. (0.1587 to 0.1594 in.)					
	Piston rings (measured 1.5 mm 0.05905494 in. away from external \emptyset).	$S1 = 2.560$ to 2.605 mm. (0.1008 to 0.1026 in.)					
		$S2 = 2.350$ to 2.380 mm. (0.0925 to 0.0937 in.)					
		$S3 = 3.977$ to 3.990 mm. (0.1566 to 0.1571 in.)					
9	Piston rings - Slots.	$1 = 0.100$ to 0.175 mm. (0.0039 to 0.0069 in.)					
		$2 = 0.04$ to 0.09 mm. (0.0016 to 0.0035 in.)					
		$3 = 0.04$ to 0.083 mm. (0.0016 to 0.0033 in.)					
10	Piston rings.	0.4mm. (0.0157 in.)					



BS06K016

Figure 2-8

REF. NO.	ENGINE TYPE	667TA					
		EEG	EEC	EBF	EED	EBD	EDJ
11	Piston ring gaps in cylinder liner.	X1= 0.30 to 0.40 mm. (0.0118 to 0.0157 in.) X2= 0.60 to 0.80 mm. (0.0236 to 0.0315 in.) X3= 0.30 to 0.55 mm. (0.0118 to 0.0217 in.)					
12	Connecting rod small-end bearing seat.	$\varnothing 1$ = 40.987 to 41.553 mm. (1.6137 to 1.6147 in.)					
	Connecting rod bearing seat.	$\varnothing 2$ = 72.987 to 73.013 mm. (2.8735 to 2.8745 in.)					
13	Connecting rod small-end bearing diameter.	$\varnothing 4$ = 41.279 to 41.553 mm. (1.6252 to 1.6359 in.)					
	Outer	$\varnothing 3$ = 38.019 to 38.033 mm. (1.4968 to 1.4974 in.)					
14	Connecting rod small-end bearing seat.	0.266 to 0.566 mm. (0.0105 to 0.0223 in.)					
15	Piston pin - bearing.	0.019 to 0.039 mm. (0.0007 to 0.0015 in.)					
16	Measurement dimension.	No Information Available					
	Maximum error on connecting rod axis parallelism.	No Information Available					
	Journals	$\varnothing 1$ = 82.990 to 83.010 mm. (3.2673 to 3.2681 in.)					
	Crank pins	$\varnothing 2$ = 68.987 to 69.013 mm. (2.7160 to 2.7170 in.)					
	Main half bearings (supplied as spares).	$S1$ = 2.456 to 2.464 mm. (0.0967 to 0.0970 in.)					
	Connecting rod half bearings.	$S2$ = 1.955 to 1.968 mm. (0.0770 to 0.0775 in.)					
17	Main bearing- journals						
	Numbers 1, 7	$\varnothing 3$ = 87.982 to 88.008 mm. (3.4638 to 3.4649 in.)					
	Numbers 2, 3, 4, 5, 6	$\varnothing 3$ = 87.977 to 88.013 mm. (3.4637 to 3.4651 in.)					

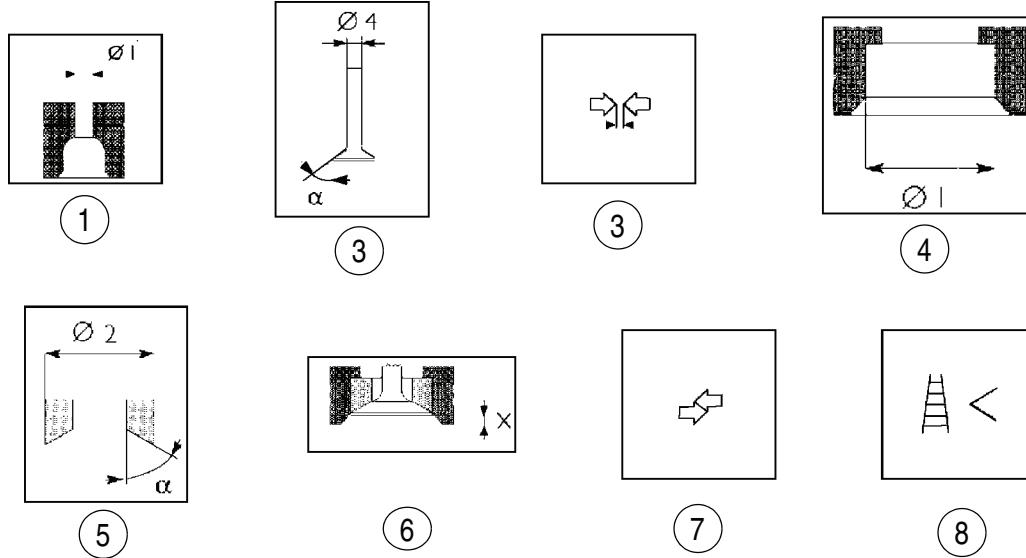


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Figure 2-9

REF. NO.	ENGINE TYPE	667TA					
		EEG	EEC	EBF	EED	EBD	EDJ
18	Half bearing- journals.						
	Numbers 1, 7	0.044 to 0.106 mm. (0.0017 to 0.0042 in.)					
	Numbers 2, 3, 4, 5, 6	0.041 to 0.103 mm. (0.0016 to 0.0041 in.)					
	Half bearing - crank pins.	0.039 to 0.111 mm. (0.0015 to 0.0044 in.)					
19	Main half bearings	+0.250 mm. (0.0098 in.)					
	Connecting rod half bearings.	+0.500 mm. (0.0197 in.)					
20	Main journal of thrust bearing.	X1= 37.475 to 37.545 mm. (1.4754 to 1.4781 in.)					
21	Main bearing housing of thrust bearing.	X2= 25.980 to 26.480 mm. (1.0228 to 1.0425 in.)					
22	Shoulder half ring.	X3= 37.280 to 37.380 mm. (1.4677 to 1.4716 in.)					
23	Crankshaft shoulder.	0.095 to 0.265 mm. (0.0037 to 0.0104 in.)					

VALVE GEAR - CYLINDER ASSEMBLY



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Figure 2-10

REF. NO.	ENGINE TYPE	667TA					
		EEG	EEC	EBF	EED	EBD	EDJ
1	Valve guide seats on cylinder head.	Ø1= 7.042 to 7.062 mm. (0.2772 to 0.2780 in.)					
2	Valves - Intake.	Ø4= 6.970 to 6.999 mm. (0.2744 to 0.2756 in.)					
	Valves - Exhaust.	angle= 60° ± 0.25°	Ø4= 6.970 to 6.999 mm. (0.2744 to 0.2756 in.)				
3	Valve stem and respective guide.	0.043 to 0.092 mm. (0.0017 to 0.0036 in.)					
4	seat on head for valve seat. - Intake.	34.837 to 34.863 mm. (1.3715 to 1.3725 in.)					
	seat on head for valve seat. - Exhaust.	34.837 to 34.863 mm. (1.3715 to 1.3726 in.)					
5	Valve seat outer diameter; angle of valve seats on cylinder head.						
	Intake.	Ø2= 34.917 to 34.931 mm. (1.3747 to 1.3752 in.)					
	Exhaust.	angle= 60°	Ø2= 34.917 to 34.931 mm. (1.374681 to 1.375232 in)				
6	Recessing. Intake valve	0.590 to 1.110 mm. (0.0232 to 0.0437 in.)					
	Recessing. Exhaust valve	0.960 to 1.480 mm. (0.0378 to 0.0583 in.)					
7	Between valve seat and head- Intake	0.054 to 0.094 mm. (0.0021 to 0.0037 in.)					
	Between valve seat and head- Exhaust	0.054 to 0.094 mm. (0.0021 to 0.0037 in.)					
8	Valve seats	No Information Available					

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