SHOP MANUAL

KOMATSU®

95 SERIES

MidWestTech | Komatsu 95 Series Engine Service Manual | Publication SEN04408

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ELECTRIC WIRE CODE

In the wiring diagrams, various colors and symbols are employed to indicate the thickness of wires.
This wire code table will help you understand WIRING DIAGRAMS.
Example: 5WB indicates a cable having a nominal number 5 and white coating with black stripe.

CLASSIFICATION BY THICKNESS

Norminal number	Copper wire			Cable O.D. (mm)	Current rating (A)	Applicable circuit
	Number of strands	Dia. of strands (mm^2)	Cross section (mm^2)			
0.85	11	0.32	0.88	2.4	12	Starting, lighting, signal etc.
2	26	0.32	2.09	3.1	20	Lighting, signal etc.
5	65	0.32	5.23	4.6	37	Charging and signal
15	84	0.45	13.36	7.0	59	Starting (Glow plug)
40	85	0.80	42.73	11.4	135	Starting
60	127	0.80	63.84	13.6	178	Starting
100	217	0.80	109.1	17.6	230	Starting

CLASSIFICATION BY COLOR AND CODE

Priority	Classification \ Circuits		Charging	Ground	Starting	Lighting	Instrument	Signal	Other
1	Primary	Code	W	B	B	R	Y	G	L
		Color	White	Black	Black	Red	Yellow	Green	Blue
2	Auxiliary	Code	WR	—	BW	RW	YR	GW	LW
		Color	White & Red	—	White & Black	Red & White	Rellow & Red	Green & White	Blue & White
3		Code	WB	—	BY	RB	YB	GR	LR
		Color	White & Black	—	Black & Yellow	Red & Black	Yellow & Black	Green & Red	Blue & Yellow
4		Code	WL	—	BR	RY	YG	GY	LY
		Color	White & Blue	—	Black & Red	Red & Yellow	Yellow & Green	Green & Yellow	Blue & Yellow
5		Code	WG	—	—	RG	YL	GB	LB
		Color	White & Green	—	—	Red & Green	Yellow & Blue	Green & Black	Blue & Black
6		Code	—	—	—	RL	YW	GL	—
		Color	—	—	—	Red & Blue	Yellow & White	Green & Blue	—

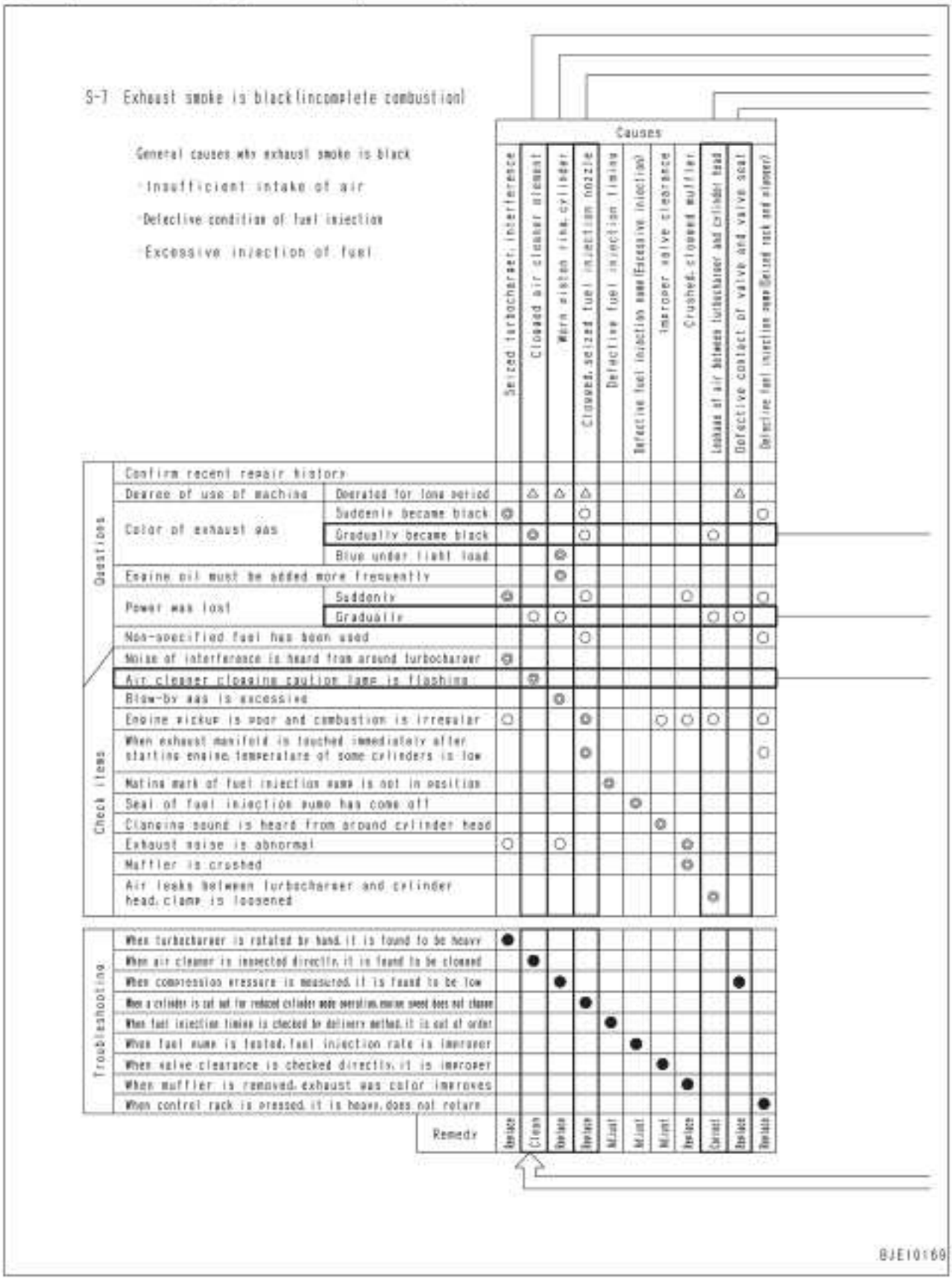
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SPECIFICATIONS

Engine model			4D95LWE-5		S4D95LWE-5
Applicable machine			WA65-HH-6	WA70-HH-6	WA80-HH-6
Number of cylinder – Bore × Stroke		(mm)	4 – 95 × 115		
Total piston displacement		ℓ (cc)	3.261 (3,261)		
Firing order			1 – 2 – 4 – 3		
Dimensions	Overall length	(mm)	707	707	707
	Overall width	(mm)	613	613	613
	Overall height (excluding exhaust pipe)	(mm)	764	764	827
Performance	Flywheel horsepower	kW {HP}/rpm	40.5 {54.3}/2,350	44.8 {60.1}/2,350	50.0 {67.1}/2,270
	Maximum torque	Nm {kgm}/rpm	190 {19.4}/1,600	210 {21.4}/1,600	240 {24.5}/1,600
	High idle speed	(rpm)	2,650	2,650	2,520
	Low idle speed	(rpm)	900	900	900
	Fuel consumption ratio at rated point	g/kWh {g/HPh}	262 {195}	253 {189}	257 {192}
Dry weight		(kg)	230	230	240
Fuel pump			Bosch 4LC-35 type		
Governor			Centrifugal, all speed type		
Lubricating oil capacity (Refill capacity)		(ℓ)	7.5 (7.0)	7.5 (7.0)	11.5 (11.0)
Coolant capacity		(ℓ)	4.5	4.5	4.5
Alternator			12 V, 90 A	12 V, 90 A	12 V, 90 A
Starting motor			12 V, 2.2 kW	12 V, 2.2 kW	12 V, 2.2 kW
Turbocharger			—	—	TD04L

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<Example of troubleshooting> Exhaust gas is black
Let us assume that [Clogged air cleaner] is taken to be the cause of black exhaust gas. 3 symptoms have causal relationship with this problem: [Color of exhaust gas gradually became black], [Power was lost gradually], and [Air cleaner clogging caution lamp is flashing].



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