



## 8 Maintenance Schedules, List of Job Cards and Job Cards

### 8.1 Summary of Maintenance Schedules

All fittings, shutoff and control devices of the operating media piping systems as well as of the compressed air piping system not listed in these schedules shall be maintained according to manufacturer's specifications.

#### 8.1.1 Initial maintenance jobs

8.1.1.1 - **Engines running in continuous operation**, e.g. marine engines, > 300 hours / year

8.1.1.2 - **Engines running in standby operation**, e.g. emergency generating sets, < 300 hours / year

#### 8.1.2 Daily maintenance jobs

These jobs are described in Section 4.3, as well as in the brief instructions\* under Section "Monitoring of Engine Operation".

8.1.3 **Periodic maintenance jobs for engines running in continuous operation > 300 hours / year**, e.g. marine engines.

- This schedule forms part of the brief instructions\*

8.1.4 **Periodic maintenance jobs for engines running in continuous operation < 300 hours / year**, which are exclusively or most of the time in standby mode, e.g. emergency generating sets.


### 8.2 List of Job Cards

by maintenance groups

### 8.3 Job Cards

by maintenance groups

\* The brief instructions are attached to this operation manual.

Section: 8	Maintenance Schedules and Job Cards	
Page: 8-0-02		
Engine: S/BVM 628		

This page intentionally left blank




Maintenance Schedules

Section: 8  
 Page: 8-1-01  
 Engine: S/BVM 628

**8.1.1 Initial Maintenance Jobs**

Job ... RH after commissioning	<b>8.1.1.1 Engines running in continuous operation,</b> e.g. marine engines, > 300 hours / year	Job Card No.	See Footnotes
	Checking and servicing engine coolant containing additives on non-mineral oil basis x1		X <sub>1</sub>
25 RH	Checking inlet and exhaust valve clearances Checking crankweb deflection / gauging axial clearance Cleaning fuel twin filter Servicing centrifugal lube oil filter Inspecting crankcase oil mist detector	01.01.01 02.02.01 07.10.01 08.13.01 11.05.01	— — — — x
50 RH	Checking engine alignment and elastic mounting Analyzing lube oil samples Servicing lube oil paper microfilter Cleaning strainer in front of master starting valve Cleaning filter for pressure reducer station	03.07.01 08.01.01 08.10.01 10.03.91 10.06.01	x — — — x
100 RH	Changing oil of exhaust turbocharger	06.05.01	—
125 RH	Checking engine coolant containing anti-corrosive oil according to section 6.4	—	x
250 RH	Analyzing lube oil samples Cleaning raw water filter Functional check of starting and control air system Cleaning dirt trap Removing strainer in front of master starting valve	08.01.01 — 10.01.01 10.03.02 10.03.91	— x — — —
1000 RH	Checking engine alignment and elastic mounting	03.07.01	x
2000 RH	Checking engine alignment and elastic mounting	03.07.01	x
3000 RH	Checking engine alignment and elastic mounting	03.07.01	x
4000 RH	Checking engine alignment and elastic mounting	03.07.01	x

x Depending on engine type and additive used  
 x1 Depending on engine type and additive used  
 (intervall to be entered in Maintenance S schedule acc. to Section 6.4 of Operation Manual)

Section:	8	Maintenance Schedules		
Page:	8-1-02			
Engine:	S/BVM 628			
Job.. RH after com- misioning	<b>8.1.1.2 Engines running in continuous operation,</b> e.g. marine engines, > 300 hours / year	Job Card No.	See Footnotes	
	Checking and servicing engine coolant containing additives on non-mineral oil basis		X 1	
50 RH	Checking inlet and exhaust valve clearances Checking crankweb deflection / gauging axial clearance Checking engine alignment and elastic mounting Cleaning fuel twin filter Servicing centrifugal lube oil filter Analyzing lube oil samples Servicing lube oil paper microfilter Cleaning strainer in front of master starting valve Cleaning filter for pressure reducer station Inspecting crankcase oil mist detector	01.01.01 02.02.01 03.07.01 07.10.01 08.13.01 08.01.01 08.10.01 10.03.91 10.06.01 11.05.01	— — x — — — — — x x	
1Year	Checking engine alignment and elastic mounting	03.07.01	x	
2 Years	Checking engine alignment and elastic mounting	03.07.01	x	
<p>x      Depending on engine type and additive used</p> <p>x1     Depending on engine type and additive used (intervall to be entered in Maintenance S schedule acc. to Section 6.4 of Operation Manual)</p>				



Maintenance Schedule


Section: 8  
 Page: 8-1-03  
 Engine: S/BVM 628

**8.1.2 Daily maintenance jobs, see Section 4.3**

**8.1.3 Periodic maintenance jobs for engines running in continuous operation,**  
 e.g. marine engines > 300 hours / year.

All fittings, shutoff and control devices of operating media systems as well as of compressed air piping system shall be maintained according to manufacturer's specifications.

Ser. No.	Periodic Maintenance Jobs	Job Card No.	See Footnotes
	Checking and servicing engine coolant containing additives on non-mineral oil basis		X <sub>1</sub>
1	<u>Interval: every 250 engine running hours</u> Inspecting valve rotator Cleaning turbocharger turbine (depending on fuel quality grade) Servicing centrifugal lube oil filter Servicing light barrier of crankcase oil mist detector Inspecting coolant circulation pump	01.03.01 06.13.01 08.13.01 11.05.01 09.07.01	M <sub>1</sub> /M <sub>2</sub> /M <sub>3</sub> X X
2	<u>Interval: every 500 engine running hours</u> Jobs as under ser. No. 1 Cleaning fuel twin filter Cleaning filter of pressure reducer station	07.10.01 10.06.01	X X
3	<u>Interval: every 750 engine running hours</u> Jobs as under ser. No. 1 Checking engine coolant containing anticorrosive oil acc. to Section 6.4		X
4	<u>Interval: every 1000 engine running hours</u> Jobs as under ser. Nos. 1 and 2 Checking inlet and exhaust valve clearances Inspecting combustion chamber Changing oil of turbocharger Inspecting injectors Cleaning dirt trap Inspecting crankcase oil mist detector	01.01.01 01.05.04 06.05.01 07.08.01 10.03.02 11.05.01	M <sub>3</sub> M <sub>3</sub> X <sub>5</sub> M <sub>3</sub> X
5	<u>Interval: every 1500 engine running hours</u> Jobs as under ser. Nos. 1 to 3 Checking inlet and exhaust valve clearances Inspecting combustion chamber Inspecting injectors Analyzing lube oil samples Servicing lube oil paper microfilter Inspecting temperature monitors for oil, water and air Inspecting pressure monitors for oil, water and air Inspecting flow monitor Inspecting overspeed protection Inspecting oil level float switch Inspecting service-alarm switch for lube oil wire edge filter	01.01.01 01.05.04 07.08.01 08.01.01 08.10.01 11.01.01 11.01.02 11.01.03 11.03.01 11.07.01 11.08.01	D/M <sub>1</sub> /M <sub>2</sub> M <sub>1</sub> / M <sub>2</sub> M <sub>1</sub> / M <sub>2</sub> M <sub>1</sub> /M <sub>2</sub> / M <sub>3</sub> X X X

Section:	8	Maintenance Schedule	
Page:	8-1-04		
Engine:	S/BVM 628		
Ser No.	Periodic Maintenance Jobs	Job Card No.	See Footnotes
6	<u>Interval: every 3000 engine running hours</u> Jobs as under ser. Nos. 1 to 5 Inspecting combustion chamber Servicing cylinder head Checking crankweb deflection / gauging axial clearance Inspecting foundation bolts Changing oil of hydr. governor Changing oil of turbocharger Inspecting control linkage of injection pump Inspecting injectors Repairing injectors Servicing lube oil paper microfilter Checking delivery rate of valve seat lubrication Cleaning lube oil microfilter (lube oil seal)	01.05.04 01.08.01 02.02.01 03.07.01 05.03.11 06.05.01 07.01.01 07.08.01 07.09.01 08.10.01 08.14.01 08.20.02	D M <sub>3</sub>  X X <sub>5</sub>  D M <sub>3</sub> D
7	<u>Interval: every 4500 engine running hours</u> Jobs as under ser. Nos. 1, 2, 3 and 5 Servicing cylinder head Changing oil of turbocharger Repairing injectors	01.08.01 06.05.01 07.09.01	M <sub>1</sub> / M <sub>2</sub> X <sub>5</sub> M <sub>1</sub> / M <sub>2</sub>
8	<u>Interval: every 6000 engine running hours</u> Jobs as under ser. Nos. 1 to 6 Inspecting main running gear Inspecting piston Inspecting governor control linkage Inspecting charge air system Cleaning charge air cooler, air side Repairing injectors Functional check of starting and control air system Inspecting rubber vibration damper	02.01.01 02.10.01 05.04.15 06.02.01 06.04.02 07.09.01 10.01.01 12.01.02	 M <sub>3</sub> X <sub>2</sub> M <sub>3</sub>  D  X
9	<u>Interval: every 8000 engine running hours</u> Jobs as under ser. Nos. 1, 2 and 4 Servicing the turbocharger	06.06.01	
10	<u>Interval: every 9000 engine running hours</u> Jobs as under ser. Nos. 1 to 7 Inspecting piston Inspecting charge air system	02.10.01 06.02.01	M <sub>1</sub> / M <sub>2</sub> M <sub>1</sub> / M <sub>2</sub>
11	<u>Interval: every 12000 engine running hours</u> Jobs as under ser. Nos. 1 to 6 and 8 Servicing cylinder head Inspecting piston Inspecting gear train Inspecting drive for hydr. governor Servicing telescope piece Inspecting charge air system Servicing master starting valve Renew flexible lines, -compensators, rubber tubes	01.08.01 02.10.01 04.08.01 05.04.01 05.04.15 06.02.01 10.03.01 --	D D  X X D  




Maintenance Schedule

Section: 8  
 Page: 8-1-05  
 Engine: S/BVM 628

Ser. No.	Periodic Maintenance Jobs	Job Card No.	See Footnotes
12	<u>Interval: every 15000 engine running hours</u> Jobs as under ser. Nos. 1 to 6 Inspecting main bearing Inspection of injection pump at DEUTZ SERVICE Replacing viscous-type torsional vibration damper	02.04.01 12.01.01	M <sub>3</sub> M <sub>3</sub> X
13	<u>Interval: every 18000 engine running hours</u> Jobs as under ser. Nos. 1 to 8 and 10 Inspecting main bearing Inspection of injection pump at DEUTZ SERVICE	02.04.01	M <sub>1</sub> / M <sub>2</sub> M <sub>1</sub> / M <sub>2</sub>
14	<u>Interval: every 24000 engine running hours</u> Jobs as under ser. Nos. 1 to 6, 8, 9 and 11 Inspecting main bearing Inspecting piston pin, pin bush and pin bore Servicing cylinder liner Inspecting exhaust elbow crankshaft bearing Inspection of injection pump at DEUTZ SERVICE Servicing lube oil pump Repairing wire edge filter Repairing coolant circulation pump Maintaining plant-specific fittings and control devices	02.04.01 02.13.01 03.02.03 06.01.03 04.01.01 08.04.01 08.09.01 09.07.02 —	D     D   X X <sub>4</sub>
15	<u>Interval: every 10 years</u> Repairing rubber torsional vibration damper	12.01.02	X
16	<u>As required</u> Repairing valve rotator Cleaning turbocharger turbine Cleaning intake air cleaner of turbocharger Cleaning charge air cooler, air side Servicing lube oil filter combination Repairing viscous-type torsional vibration damper	01.03.02 06.13.01 06.03.11 06.04.02 08.10.01 12.01.01	M <sub>1</sub> /M <sub>2</sub> /M <sub>3</sub> X   X

- X Depending on engine type
- X<sub>1</sub> Depending on engine type and additive used (Interval as per Section 6.4, to be entered in MaintenanceSchedule)
- X<sub>2</sub> Annually, at the latest, or after max. 500 start ing manoeuvres
- X<sub>3</sub> After 2 years, at the latest, or after max. 1000 starting manoeuvres
- X<sub>4</sub> Shorter intervals specified by zhe manufacturer of the bought-of-item, if any, must be considered.
- D Distillate fuel, Section 6.3
- M<sub>1</sub> Intermediate fuel, British Standard / Class B2, Section 6.3
- M<sub>2</sub> Intermediate fuel, British Standard MA 100 / Class M3, CIMAC A 10 / B10 / E25, Section 6.3
- M<sub>3</sub> Intermediate fuel, CIMAC C10 / D15, Section 6.3
- X<sub>5</sub> See Section 6.1

**Extension or reduction of intervals**

 The inspections shall be carried out after the running hours quoted in the maintenance schedule. As a result of the inspections the intervals may be extended or reduced, however, to suit local conditions. The maintenance schedules summarise all inspection, servicing and repair jobs, while making reference to the individual sections and job cards of Section 8.

Section:

Page:

Engine:

Maintenance Schedule



This page intentionally left blank






Maintenance Schedules

Section: 8  
 Page: 8-1-07  
 Engine: S/BVM 628

**8.1.4 Periodic maintenance jobs for engines running < 300 hours / year,** which are exclusively or for the greater part of time in standby mode (DEUTZ minimum requirement).  
 In addition, there exist numerous national and international standards which may also be applied if they do not restrict the specifications given here.  
 All fittings, shutoff and control devices of operating media systems as well as of compressed air piping system shall be maintained according to manufacturer's specifications.

Ser. No.:	Interval: Job:	Engine ready for operation ?	Job Card or Section No.
1	<b>Interval: daily</b> Checking: Starting air pressure Draining: Dirt trap	yes	10.03.02
2	<b>Interval: weekly</b> Jobs as under ser. No. 1 Checking: Circulating lube oil level Checking: Fuel level in service tank Checking: ICoolant level in header tank Servicing: Draining of the compressed air vessel Servicing: Draining leak-oil-tank Inspecting: Engine and operating media piping systems for leaks	yes	08.02.01
3	<b>Interval: every three months</b> Jobs as under ser. Nos. 1 and 2 Engine test run for 1/2 hour under max possible load (min. 25% load)  Checking: Operating data, pressures, temperatures, etc. and comparing with acceptance test record - under steady-state conditions about 1/2 hour after start - before stopping the engine Checking: Turbocharger turbine slow-down Inspecting: Lube oil system Servicing: Operating wire edge lube oil filter Checking: Temperature monitors Checking: Pressure monitors	yes	see Section 4  08.02.02 08.09.01 11.01.01 11.01.02
4	<b>Interval: every six months</b> Jobs as under ser. Nos. 1 to 3 Analyzing engine coolant	yes  yes	see Section 6.4

Section: 8		Maintenance Schedules	
Page: 8-1-08			
Engine: S/BVM 628			
Ser. No.:	Interval: Job:	Engine ready for operation ?	Job Card or Section No.:
5	<b>Interval: every year</b> Jobs as under ser. Nos. 1 to 4 Checking: Inlet and exhaust valve clearances Inspecting: Inner crankcase Inspecting: Engine mounting (foundation) Inspecting: Control governor control linkage x <sub>1</sub> Cleaning: Air cleaner (w. oil bath or dry air cleaner depending on degree of contamination) Inspecting: Control rod Inspecting: Fuel injector Cleaning: Fuel filter Servicing: Lube oil filter combination (renewing cartridge and cleaning filter combination) Cleaning: Wire edge filter Servicing: Changing oil - Engine - Hydr. governor Inspecting: Overspeed protection Inspecting: Oil level float switch	no	01.01.01 02.01.01 03.07.01 05.04.01 06.03.01  07.01.01 07.08.01 07.10.01 08.10.01  08.09.01  08.02.02 05.03.11 11.03.01 11.07.01
6	<b>Interval: after 2 years</b> Jobs as under ser. Nos. 1 to 5 Servicing: Telescopic piece x <sub>2</sub> Changing oil of turbocharger X <sub>3</sub>	no no	05.04.15 06.05.01
7	<b>Interval: after 4 years</b> Jobs as under ser. Nos. 1 to 6 Servicing: Cylinder head Inspecting: Piston Inspecting: Big-end bearing Servicing: Cylinder liner Servicing: Cleaning charge air cooler Servicing: Replacing wire edge filter elements Servicing: Starting air distributor Servicing: Master starting valve Servicing: Dirt trap Replacing: Pressure monitors Repairing: Engine control unit Replacing of: - Solenoid valves, pressure reducing valves, control valves - Servicing H.P. filter	no	01.08.01 02.10.01 02.04.01 03.02.01 06.04.02 08.09.01 10.02.01 10.03.01 10.03.02 11.01.02



Maintenance Schedules

Section: 8  
 Page: 8-1-09  
 Engine: S/BVM 628

Ser. No.:	Interval: Job:	Engine ready for operation ?	Job Card or Section No.:
8	Interval: <b>after 7 - 8 years</b> Inspecting: Main bearings (2 pcs) Visual inspection of cams and rollers Visual inspection of gear train Servicing: Turbocharger Replacing temperature monitors Replacing thermocouples (exhaust pyrometer unit) Renew flexible lines, -compensators, rubber tubes  Following expiry of the above operating period, please consult a DEUTZ-specialist to determine subsequent maintenance intervals.	no	02.04.01 04.02.01 04.08.01 06.06.01 11.01.01 11.01.04 --

In the case of emergency generating sets very high demands are placed on the engine reliability. To meet these requirements, the following actions must be taken to prevent "early failures".

- The engine shall be commissioned by a DEUTZ-trained engineer who will check preheating, oil priming and automatic starting and who, during the commissioning run of the engine, will check the indicating, warning and shutdown devices and rectify if necessary.
- The operating instructions of the engine manufacturer shall be observed in respect of cooling water, fuel and lube oil.
- The instructions for operation of the engine given in Section 4 of this manual shall be observed.
- The engines shall be maintained in accordance with the present maintenance schedules and shall regularly undergo the specified test runs. Where the engines are run for substantially more than 300 hours per year, maintenance shall be carried out according to 8.1.3.
- Continuous idle running must not exceed 24 hours.

At the end of prolonged idling periods, the engine should always be run with min. 50% load for min. 30 minutes to remove all carbon residues liable to have formed during idling in the combustion chamber and the exhaust system as well as on the valves.

x<sub>1</sub> After max. 500 starting manoeuvres, at the latest  
 x<sub>2</sub> After max. 1000 starting manoeuvres, at the latest  
 X<sub>3</sub> See section 6.1

Section:

Page:

Engine:

Maintenance Schedules



This page intentionally left blank



List of Job Cards

Section: 8


Page: 8-2-01

Engine: S/BVM 628

**8.2 List of Job Cards**

The Job Cards cover the following work:

Assy. Group	Job Card No.	Job (see also Maintenance Schedule here to for)	Inspection			
			Servicing			Moun- ting
			Repairing			
	<b>01.00.00</b>	<b>CYLINDER HEAD</b>				
11	01.01.01	Inlet / Exhaust Valve Clearance Checking	●			
11	01.02.02	Rocker Arm Removal / Refitment				●
11	01.02.03	Rocker Arm Bearing Inspection/Repairing	●		●	
08	01.03.01	Valve Rotator / Inspecting	●			
08	01.03.02	Valve Rotator Servicing / Repairing			●	
08	01.04.01	Cylinder Head Removal				●
08	01.05.01	Inlet / Exhaust Valve Removal / Refitment				●
08	01.05.04	Inlet / Exhaust Valve Inspection	●			
08	01.05.05	Valve Spring Removal / Refitment				●
08	01.06.01	Valve Guide Inspection / Repairing	●		●	
08	01.07.01	Inlet/Exhaust Valve Servicing/Repairing	●	●	●	
08	01.08.01	Cylinder Head Servicing		●		
08	01.09.01	Cylinder Head Refitment				●
31	01.11.01	Starting Valve Inspection / Testing	●			
31	01.11.02	Starting Valve Servicing		●		
31	01.12.01	Safety Valve Servicing		●		
08	01.13.01	Valve-seat Ring				●

Section:	8	List of Job Cards	
Page:	8-2-02		
Engine:	S/BVM 628		


Assy. Group	Job Card No.	Job (see also Maintenance Schedule heretofore)	The Job Cards cover the following work:			
			Inspection			
			Servicing			Moun- ting
			Repairing			
	<b>02.00.00</b>	<b>CRANKSHAFT SYSTEM</b>				
05	02.00.01	Crankshaft System Precautions				●
05	02.01.01	Crankshaft System Inspection	●			
05	02.02.01	Crankweb Deflection Gauging	●			
06	02.03.02	Bearing Shell Spread Gauging	●			
06	02.03.03	Bearing Clearance Gauging	●			
06	02.04.01	Bearing Shell (Wear Pattern) Inspection	●			
06	02.05.01	Big-end Bearing Removal				●
06	02.06.01	Big-end Bearing Refitment				●
01	02.07.01	Main Bearing Removal				●
01	02.08.01	Main Bearing Refitment				●
07	02.09.01	Piston Removal				●
07	02.10.01	Piston Inspection / Servicing	●	●		
07	02.10.02	SPiston Ring / Groove Gauging	●			
07	02.10.04	Piston Reconditioning			●	
07	02.11.01	Piston Ring / Groove Reconditioning			●	
07	02.12.01	Piston Pin Removal / Refitment				●
07	02.13.01	Piston Pin Bush Gauging / Reconditioning			●	
07	02.14.01	Piston Refitment				●
07	02.15.01	Piston Coolant Nozzle Inspection	●			
49	02.16.02	Hydraulic Tool for Annular Nuts Servicing				●
63	02.17.01	Flexible Coupling (Vulkan)				●



List of Job Cards

Section: 8  
 Page: 8-2-03  
 Engine: S/BVM 628

Assy. Group	Job Card No.	Job (see also Maintenance Schedule heretofore)	The Job Cards cover the following work:			
			Inspection			
			Servicing			Moun- ting
			Repairing			
	<b>03.00.00</b>	<b>ENGINE FRAME</b>				
01	03.01.01	Crankcase Relief Valve Inspection/Servicing	●	●		
04	03.02.01	Cylinder Liner Servicing		●		
04	03.02.03	Cylinder Liner Servicing/Reconditioning		●	●	
04	03.03.01	Cylinder Liner Inspection/Gauging	●			
04	03.04.01	Cylinder Liner Removal				●
04	03.05.01	Cylinder Liner Refitment				●
04	03.06.01	Cylinder Liner Servicing		●		
46	03.07.01	Foundation Bolts Inspection	●			
46	03.08.01	Crankshaft system reconditioning of resiliently mounted engines			●	
	<b>04.00.00</b>	<b>TIMING SYSTEM</b>				
10	04.01.01	Camshaft Bearing Inspection/Recond.	●		●	
11	04.02.01	Lower Valve Drive Reconditioning			●	
09	04.04.01	Timing Gear Train Removal/Refitment				●
10	04.05.01	Camshaft Removal				●
10	04.06.01	Camshaft Refitment				●
10	04.06.02	Valve Timing Checking	●			
09	04.08.01	Timing Gear Train Inspection/Gauging	●			
05	04.09.01	Flywheel Removal/Refitment				●
05	04.11.01	Crankshaft Gear Removal/Refitment				●
14	04.13.01	Water Pump Idler Gear Removal/Refitment				●
14	04.14.01	Pump Chest Removal/Refitment				●
05	04.16.01	Coupling Flange Removal/Refitment				●
49	04.16.02	Filling of Oil Pump				●

Section:	8	List of Job Cards	
Page:	8-2-04		
Engine:	S/BVM 628		

Assy. Group	Job Card No.	Job (see also Maintenance Schedule heretofore)	The Job Cards cover the following work:			
			Inspection			
			Servicing			Moun- ting
			Repairing			
	<b>05.00.00</b>	<b>SPEED CONTROL SYSTEM</b>				
27	05.00.01	Speed Control System Safety Precautions				
27	05.03.11	Hydraulic Governor Servicing (Oil Change)		●		
27	05.03.12	Hydraulic Governor Setting	●			
27	05.03.13	Electr. Governor Speed Pick-up Rem./Ref.			●	
27	05.03.14	Hydr. and electr. Governor Serv./Recond.		●	●	
27	05.04.01	Governor Drive Inspection	●			
29	05.04.14	Governor Linkage Setting		●		
29	05.04.15	Governor Linkage Servicing	●	●	●	
29	05.04.15	Control Linkage	●		●	






List of Job Cards

Section: 8  
 Page: 8-2-05  
 Engine: S/BVM 628

Assy. Group	Job Card No.	Job (see also Maintenance Schedule heretofore)	The Job Cards cover the following work:			
			Inspection			
			Servicing			Moun- ting
			Repairing			
	<b>06.00.00</b>	<b>EXHAUST / TURBOCHARGING SYSTEM</b>				
41	06.01.01	Exhaust Manifold Inspection	●			
41	06.01.03	Exhaust Elbow	●			
87	06.02.01	Charge Air System Inspection	●			
87	06.03.11	Intake Air Cleaner Servicing		●		
58	06.04.02	Charge Air Cooler Water Side Servicing				●
58	06.04.02	Charge Air Cooler Water Side Servicing		●		
43	06.05.01	Turbocharger Servicing (Oil Change)		●		
43	06.06.01	Turbocharger Servicing/Reconditioning		●	●	
43	06.12.01	Turbocharger Compressor Servicing		●		
43	06.13.01	Turbocharger Turbine Servicing		●		
43	06.13.02	Turbocharger Scavenging Attachm. Serv.		●		
43	06.13.03	Turbocharger Scavenging Nozzles	●			


Section: 8		List of Job Cards				
Page: 8-2-06						
Engine: S/BVM 628						
Assy. Group	Job Card No.	Job (see also Maintenance Schedule heretofore)	The Job Cards cover the following work:			
			Inspection			
			Servicing			Moun- ting
			Repairing			
	<b>07.00.00</b>	<b>FUEL SYSTEM</b>				
17	07.00.01	Instructions - Fuel System				
17	07.01.01	Inj. Pump Element Locking Contr. Rod Insp.	●			
17	07.02.01	Injection Pump Element Removal/Refitment				●
17	07.02.02	Idle Stroke Setting		●		
17	07.02.03	Injection Pump Control Rod Rem./Refitm.				●
17	07.02.04	Injection Pump Element Seal Recond.			●	
17	07.02.05	Constant Delivery Setting		●		
17	07.02.06	Roller Tappet Bush Rem./Refitm.				●
17	07.02.07	Firing Pressure and Exhaust Temperature		●		
21	07.03.01	Removing and Refitting Injection Piping				●
17	07.03.02	Fuel System Servicing (Bleeding)		●		
21	07.03.03	Injection Piping Reconditioning			●	
17	07.04.01	Injection Pump Removal/Refitment				●
17	07.05.01	Injection Pump Camshaft Removal/Refitment				●
17	07.06.01	Injection Timing	●			
19	07.07.01	Injector Removal/Refitment				●
19	07.08.01	Injector Testing	●			
19	07.09.01	Injector Reconditioning			●	
20	07.10.01	Fuel Duplex Filter Servicing		●		
20	07.11.01	Fuel Feed Pump Removal/Refitment				●



List of Job Cards

Section: 8  
 Page: 8-2-07  
 Engine: S/BVM 628

Assy Group	Job Card No.	Job (see also Maintenance Schedule heretofore)	The Job Cards cover the following work:			
			Inspection			
			Servicing			Moun- ting
			Repairing			
	<b>08.00.00</b>	<b>LUBRICATING OIL SYSTEM</b>				
16	08.00.01	Instructions - lubricating oil System				
15	08.01.01	Oil Sampling	●			
15	08.02.01	Oil System Inspection	●			
15	08.02.02	Oil Change		●		
14	08.04.01	Oil Pump Servicing		●		
15	08.09.01	Oil Edge Filter Servicing/Reconditioning		●		
15	08.10.01	Oil Paper Microfilter Servicing		●		
16	08.11.01	Oil Pressurestat Inspection	●			
15	08.13.01	Centrifugal Oil Cleaner Servicing		●		
16	08.14.01	Valve Seat Lubrication Inspection	●			
17	08.20.01	Two-Way Valve (Sealing Oil System) Serv.		●		
17	08.20.02	Oil Microfilter (Sealing Oil System) Serv.		●		

Section: 8		List of Job Cards				
Page: 8-2-08						
Engine: S/BVM 628						
Assy. Group	Job Card No.	Job (see also Maintenance Schedule heretofore)	The Job Cards cover the following work:			
			Inspection			
			Servicing			Moun- ting
			Repairing			
	<b>09.00.00</b>	<b>COOLING WATER SYSTEM</b>				
37	09.00.00	Cooling Water System Draining				●
37	09.07.01	Coolant Circulation Pump Water and Oil Seals		●		
37	9.07.02	Coolant Circulation Pump			●	
	<b>10.00.00</b>	<b>PNEUMATIC SYSTEM</b>				
32	10.01.01	Pneumatic System	●			
30	10.02.01	Starting Pilot Air Distributor		●	●	
32	10.03.01	Starting Air Master Valve		●		
32	10.03.02	Dirt Collector		●		
32	10.03.91	Running-in Screen Start. Air Master Valve		●		
32	10.06.01	Pressure Reducer Station	●	●		



List of Job Cards

Section: 8  
 Page: 8-2-09  
 Engine: S/BVM 628

Assy. Group	Job Card No.	Job (see also Maintenance Schedule heretofore)	The Job Cards cover the following work:			
			Inspection			
			Servicing			Moun- ting
			Repairing			
	<b>11.00.00</b>	<b>ENGINE PROTECTIVE SYSTEM</b>				
48	11.01.01	Temperature Switches (Oil, Water, Air)	●			
48	11.01.02	Pressure Switches (Oil, Water, Air)	●			
48	11.01.03	Flow Switch	●	●		
48	11.01.04	Rem./Refitm. Exhaust Gas Thermocouples				●
48	11.01.05	Exhaust Gas Thermocouples	●			
48	11.03.01	Engine Safety System	●			
48	11.05.01	Crabnkcase Oil Mist Detector	●	●		
48	11.06.01	Charge Air Pipe Condensate Detector	●			
48	11.07.01	Oil Level Float Switch	●			
48	11.08.01	Service-warning Switch on Lube Oil Filter	●			
	<b>12.00.00</b>	<b>TORSIONAL VIBRATION DAMPER</b>				
34	12.01.01	Viscous-type Damper			●	●
34	12.01.02	Rubber-type Damper	●		●	
34	12.01.03	Removal/Refitment Rubber-type Damper				●