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MAN Diesel

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Page 1 (23)



## List of Service Letters

SL No.	Title	Keywords/Remarks
SL68-1	Serrated Couplings for Camshafts	<i>camshaft, coupling, serrated, tightening</i>
SL68-4	Exhaust Valves	<i>exhaust, valve, burning, Stellite, atomizer, fuel nozzle, adjustment</i>
SL68-5	VTF, VTBF and VT2BF Engines Relative Movement between Cooling Jacket and Scavenge Air Box	<i>relative movement, cooling jacket, scavenge air box, tightening, scavenge fire</i>
SL69-7	Woodward Governor Damage to Taper Pins	<i>Woodward, governor, damage</i>
SL69-9	Thrust Bearings	<i>crankcase, explosion, sludge, modification, alarm, high temperature</i>
SL69-11	Chain Drive with Guideways in the Engine Type 84VT2BF-180	<i>8-cylinder, varying torque, tightening force</i>
SL69-12	DE 50-62-74-84 VT2B and all K-engines Adjustment and Mounting of Piston Rod Stuffing Boxes with Heco-Rings	<i>adaptation, HECO, stuffing box, piston rod</i>
SL69-13	DE K98FF, K84EF, K74EF, K62EF 84VT2BF-180, 74VT2BF-160, 62VT2BF-140 Instruction for Tightening Slit Filters and High-Pressure Pipes	<i>fuel system, filters, high-pressure, pipes</i>
SL70-14	S45HU Starting Air Distributor	<i>loose, cam, modification</i>
SL70-15	S45H U45H Exhaust Valves	<i>dismantling, coke, clearance</i>
SL70-16	Water Washing of Turbochargers	<i>turbine, compressor, unbalance</i>
SL70-18	DE -84VT2BF-180, -74VT2BF-160 Elastic Bracing Screw for Staybolt	<i>fracture, relative movement</i>



## List of Service Letters

SL No.	Title	Keywords/Remarks
SL70-20	S45H – U45H Clearance Absorber for Exhaust Valves	<i>thermal expansion, valve gear</i>
SL71-21	Tools for Drawing of Pistons Engine Types 84VT2BF-180, K84EF 74VTF-140, 74VTF-160, 74VTBF-160 74VT2BF-160, K74EF, 62VTBF-115, 62VTBF-140 K62EF, 50VTBF-110, 50VT2BF-110	<i>threaded holes, cracks, ring groove, piston pulling, piston overhauling</i>
SL71-22	Repair of a Slipped Crankshaft Main Engines	<i>shrink mark, web, repositioning</i>
SL71-23	Scraper Rings for S45H and U45H	<i>cylinder lube oil, consumption, piston ring</i>
SL71-25	VTF, VTBF and VT2BF Engines Relative Movements between Cooling Jacket and Scavenge Air Box Addition to SL68-5	<i>repair, shims, Loctite, top bracing</i>
SL71-26	Deaeration of Fresh Water System	<i>cooling, water</i>
SL71-27	Holding-down Bolts, Supporting Chocks and Side- and Endchocks with Bolts	<i>spherical, washer, tightening</i>
SL72-28	Deaeration of Fresh Water System	<i>cooling, water</i>
SL72-29	Introduction of Increased Scavenging Port Height when Cylinder Liners are to be replaced DE 84VT2BF-180, 74VT2BF-160 62VT2BF-140 and 42VT2BF-90 6-9-12 Cylinder Engines only	<i>fouling, cylinder, wear, scavenge port</i>
SL72-30	Piston Ring Details for 2-cycle Engines	<i>gap, chamfer</i>
SL72-37	Starting Air Valve Bushings in Cylinder Covers for K84EF, K74EF, K62EF and K42EF Engines	<i>crack</i>

## List of Service Letters

SL No.	Title	Keywords/Remarks
SL72-38	DE 45H Shut Down Function	<i>black-out, safety system</i>
SL72-40	DE 45H Exhaust Valve Spindles	<i>flame shield, remove</i>
SL73-42	DE 62V-74V-84V B&W Turbochargers TL540, TL680, TL540H and TL680H Mounting Clearances	<i>rotor, compressor</i>
SL73-46	Turbocharger T1080F Studs for fastening nozzle ring	<i>over-tightening</i>
SL73-47	Cylinder Cover Sealing Ring K84EF, K74EF, K62EF 84VT2BF-180, 74VT2BF-160, 62VT2BF-140	<i>coating, dimensions</i>
SL73-48	DE: All Turbocharged Engine Types Protecting Grid for Turbocharger	<i>laminated, solid</i>
SL73-50	Water Washing of Turbochargers in Two-Stroke Engines, 5 and 10-Cylinder Plants	<i>corrosion, quantity</i>
SL73-52	Two-Stroke Diesel Engines Running at Partial Load	<i>continuous running, fuel nozzle, power</i>
SL74-53	S45H, U45H Grinding of Exhaust Valve Seats	<i>centring, grinding, tool</i>
SL74-54	DE K74EF Cylinder Liners	<i>cracks, horizontal, stop block, modifications</i>
SL74-55	K74EF Cylinder Covers	<i>cracks, exchange, cooling, water</i>
SL74-56	Grinding Tool for Fuel Valve Seats K98GF, K84EF, K74EF, K62EF, K42EF 84VT2BF-180, 74VT2BF-160, 62VT2BF-140, 50VT2BF-110	<i>sticking, overhaul</i>

## List of Service Letters

SL No.	Title	Keywords/Remarks
SL74-58	Condensation in Scavenging Air System DE: K-type and VT2BF	<i>corrosion, wear, liner, piston ring, cooler, scavenge air</i>
SL74-59	Manoeuvring System – Linkage for Stop Cylinder DE: K98FF, K84EF, K74EF and K62EF	<i>seized, lubrication</i>
SL74-60	DM K98FF, K84EF, K74EF, K62EF Change-over valve normal running – manual emergency running	
SL75-63	Condensation in Scavenging Air System DE: K-type and VT2B types	<i>corrosion, wear, liner, piston ring, cooler, scavenge air</i>
SL75-64	DE 45H Exhaust Valve Spindle Guides	<i>contact, overhaul</i>
SL75-65	B&W Turbochargers for K-E and K-F Engines Venting Screws in top of sight glass	<i>lube oil, fouling</i>
SL75-66	All Engine Types Laying up of Vessels	<i>protection, corrosion</i>
SL75-72	DE K84EF, K74EF, K62EF Cylinder Liners	<i>cracks, horizontal, stop block, modifications</i>
SL75-74	DE K90GF, K80GF and K67GF Cylinder Cover Studs and Exhaust Valve Studs	<i>tightening, leakage, hydraulic, pressure</i>
SL76-78	Two Stroke Diesel Engines Running at Partial Load	<i>continuous running, fuel nozzle, power</i>
SL76-82	Connecting Rod Bolts DE 45H and S/U50H	<i>fretting, guide piece</i>
SL76-86	K98FF-GF Reversing Mechanism	<i>screw, inspection, loose</i>
SL77-92	Aut. Stop Piston Valve for Starting Air DE K98FF, K98GF, K90GF, K84EF K74EF, K62EF	<i>slow turning, adjustment</i>

## List of Service Letters

SL No.	Title	Keywords/Remarks
SL77-93	Cylinder Cover Studs DE S/U50HL	<i>gas, leakage, insulation</i>
SL77-94	Bracing Screws for Staybolt at Chain Wheel Frame DE K90GF, K80GF and K67GF	<i>breakage, repair</i>
SL77-96	Foreign Bodies in Governor Oil System Woodward Governor Type PGA DE K67GF, K80GF, K90GF and L67GF	<i>obstruction</i>
SL77-97	Checking and Maintenance Programme DE 45H and 50H/L	<i>overhaul, instructions</i>
SL77-98	Lubrication of Roller Bearing in Chain Wheel for Reversing Mechanism K90GF, L-K80GF, L-K67GF and L55GF	<i>interval, grease, replenishment</i>
SL77-99	DE K84, K74EF and K62EF Cylinder Liners	<i>cracks, deposits, clearance, cover</i>
SL77-101	K90GF, K80GF, K67GF, K45GF Inspection and Replacement of Roller Bearings in Roller Guides for Fuel Pumps/Exhaust Valves	<i>lifetime, inspection</i>
SL77-117	Fuel Oil Cleaning Procedure Separator, Filter and Homogenizer	<i>particles, omission, operating particles, operating</i>
SL78-126	Inspection and Overhaul of Fuel Valves, DE K-GF	<i>testing, atomisation, spindle guide</i>
SL78-132	Clearance between Piston Top and Piston Skirt Diesel Engines S/U45H and S/U50H/L	<i>reduction, thermal expansion</i>
SL78-133	Rubber Ring Sealings in Pistons	<i>O-ring, leakage, Belleville, deflection</i>
SL78-134	Zinc Anodes in Turbochargers	<i>corrosion, inhibitors, cooling, water</i>
SL78-135	Hydraulic Rings, Nuts and Jacks All Engine Types	<i>sealing, hydraulic, oil</i>

## List of Service Letters

SL No.	Title	Keywords/Remarks
SL78-136	Oil-filling in Spring Guide for Exhaust Valve K98GF, K84EF, K74EF and K62EF	<i>maintenance</i>
SL79-139	Indicator Cocks All Engine Types	<i>cap, burn</i>
SL79-140	Tightening of Fuel Valve on Cylinder Cover (K-GF Valves)	<i>spindle guide, disc, spring housing</i>
SL79-153	Uncooled Fuel Valves DE VT2BF and K-EF	<i>conversion, TBO</i>
SL79-155	Starting Air Systems for Engines of K/L-GF(CA) Types	<i>distributor, leakage, modification</i>
SL79-158	Liners for Oil Cylinder in the Hydraulic Exhaust Valve Gear K45GF Type	<i>cracks, modification, tightening</i>
SL80-160	Manoeuvring on Heavy Fuels on B&W 2-stroke Crosshead Engines Types K/L-GF/GFCA	<i>uncooled, fuel, valves</i>
SL80-161	K90GF, K80GF, K67GF Piston Rod Stuffing Box	<i>drain, oil, contamination, discoloration</i>
SL80-162	Reversing Gear Hydraulic Motor DE K/L-GF Type Engines	<i>modification, roller bearing</i>
SL81-169	Adjustment of Cylinder Lubricators K/L90GF(CA) K/L80GF(CA) K/L67GF(CA)	<i>readjustment</i>
SL81-170	Reversing of Starting Air Distributor K-GF and L-GF	<i>Bellows, guard plate, failure</i>
SL81-171	Leakage between Cylinder Cover and Liners K-GF, K-GFC, K-GFCA L-GF, L-GFC, L-GFCA	<i>sealing ring, spherical washer</i>



## List of Service Letters

SL No.	Title	Keywords/Remarks
SL81-177	Piston for "0"-Setting of Fuel Pump and Plants with CP Propeller DE K/L45GF/GFC/GFCA DE L55GF/GFC/GFCA DE K/L67GS/GSC/GSCA	<i>safety system, shut down, overspeed</i>
SL81-181	Service Conditions for Cylinder Liners in K/L-GF – GFC – GFCA Engines	<i>corrosion, cooling, water, temperature</i>
SL82-187	Materials for Cylinder Liners and Piston Rings K/L-GF(C(A)) Engines	<i>Tarkalloy, Uballoy, C8, PVa, compatibility</i>
SL82-189	Elimination of Cylinder Lubrication DE S/U50 H/L – S/U	<i>alkaline</i>
SL83-191	Exhaust Valves Grinding with Inner Contact Intervals between Overhauls K/L-GF/GFC/GFCA, L-GA & L-GB/GBE	<i>geometry, TBO, Stellite</i>
SL83-193	Installation of High Efficiency Earthing Device L-GF(C-A), L-GB(E), L-MC Engines	<i>bearing, micro pitting, electrical spark</i>
SL83-197	B&W 2-stroke Slow Speed Diesel Engines Operation on Heavy Residual Fuels	
SL84-201	Piston Rings VTF – VTBF – VT2BF Engines	<i>Z-lock, S-lock</i>
SL85-205	Low Load Operation L-GFC/GFCA, L-GB/GBE and L-MC/MCE Engines	<i>continuous running, nozzle, power</i>
SL86-211	Exhaust Valve Sight Glass L35-50-60-70-80-90MC/MCE	<i>oil mist</i>
SL86-212	Starting Air Valve Non-Return Valve in Starting Air Pipe Starting Air Distributor L-MC Engines	<i>leak, reversing disk, distributor disk</i>

## List of Service Letters

SL No.	Title	Keywords/Remarks
SL86-213	Highly Efficient Propeller Shaft Earthing Device L-GF/C/A, L-GB/GBE and S/K/L-MC/MCE Engines	<i>spark erosion, electrical discharge</i>
SL86-214	50-62-74-84VT2BF K62-74-84EF K45-67-80-90GF(C) (A) L45-55-67-80-90GF(C) (A) L45-55-67-80-90GA L45-55-67-80-90GB Exhaust Valves with Recess Chamber	<i>TBO</i>
SL87-216	Service Condition of Cylinder Liners for GB/GBE and MC/MCE Engines	<i>freshwater temperature, cold corrosion</i>
SL87-217	Cleaning of Turbocharger on Turbine Side during Running for all 2-Stroke Engines	<i>water-washing, dry-cleaning</i>
SL87-218	Fuel Valve Maintenance K/L-GF/GFC/GFCA/GA, L-GB/GBE and K/L/S-MC/MCE Engines	<i>overhaul interval, fuel oil temperature, deposits</i>
SL87-219	Crosshead Bearing of Tin-Aluminium L-GB, L35MC and S26MC	<i>tin-aluminium, running layer</i>
SL87-220	Drain on Fuel Pumps between Top Cover and Pump Barrel K/L/S-MC/MCE	<i>block up, sealing ring</i>
SL87-223	Super-VIT Fuel Pumps: Adjustment & Maintenance L50/60/70/80/90MC K80/90MC/90MC-2 S50/60/70/80MC	<i>fuel injection, break-point, governor, regulating shaft, rack, pmax</i>
SL87-224	Fuel Valve Opening Pressure K/L/S-MC/MCE, K/L-GF/GFC/GFCA/GA, L-GB/GBE	<i>spring guide, tolerance, spring disc</i>
SL88-225	Opening Pressure for Fuel Valves 80MC/90MC	<i>spring, spindle guide, surface roughness, tolerance</i>
SL88-230	Soot fires in Exhaust Gas Boilers	<i>fouling, heat, soot-blowing, deposit</i>

## List of Service Letters

SL No.	Title	Keywords/Remarks
SL88-231	Overhaul of Fuel Valves K/L-GF/GFC/GFCA/GA, L-GB/GBE and K/L/S-MC/MCE Engines	<i>instruction, pressure test, non-return valve</i>
SL88-232	Overhaul Instructions on Video for VT2BF, K/L-GF/GFCA, K-EF, S/K/L-42-50-60-70-80-90MC/MCE	<i>cassette, check, adjustment</i>
SL88-234	K/L45-55-67-80-90GF(CA) Bearings for Balanceweights for Moment Compensators	<i>roller bearings</i>
SL88-236	In Service Cleaning of Air Coolers and Compressor Side of Turbochargers MAN B&W Two-Stroke Engines	<i>water separator, cleaning method, emulsion</i>
SL88-238	Exhaust Valve Knocking (hammering) L67-80-90GB/GBE, S/K/L50-60-70-80-90MC/MCE	<i>hydraulic oil system, air spring, oil leakage, air pressure</i>
SL88-241	Difference between max. Combustion Pressure ( $p_{max}$ ) and Compression Pressure ( $p_{comp}$ ) S/K/L-MC/MCE	<i>piston ring breakage, liner crack, high- pressure</i>
SL88-243	Service Experience with the Pneumatically Activated Reversible Roller Guide System S/K/L-MC/MCE	<i>reversing difficulties, manoeuvre, air cylinder damage, reversing arm</i>
SL88-244	Starting Air Distributor L50-60-70MC/MCE	<i>manoeuvring difficulties, starting difficulties, air pipe, distributor disk</i>
SL89-245	Modification of Piston Rod and Stuffing Box Engine Type K/L-GFC(A) + L-GB	<i>hardened piston rod</i>
SL89-246	Tightening Sequence for Crank Pin Bearings with thin Bearing Shells and Four Bolts/Studs L50-60-70-80-90MC, K80-90MC, S70-80MC	<i>hydraulic tightening</i>
SL89-247	GF/GFCA, GB/GBE, MC/MCE Engines	<i>starting difficulties, seat ring, starting air distributor</i>
SL89-248	Cylinder Condition S/K/L-MC/MCE Engines	<i>maintenance, liner crack, turbocharger efficiency, VIT- equipment, chamfering, overhaul</i>



## List of Service Letters

SL No.	Title	Keywords/Remarks
SL89-250	Engine Performance Evaluation	<i>performance evaluation, countermeasure, service data, running condition</i>
SL89-251	Camshaft Lubrication System MC Engines	<i>roller guide, cam, lube oil filter</i>
SL89-252	Scale and Corrosion Control in Freshwater Cooling Systems MAN B&W Low Speed Diesel Engines	<i>cooling water treatment, inhibitor, corrosion, cavitation, cleaning</i>
SL90-256	Conical ring for Exhaust Valve Spindle S/K/L-MC/MCE Engines	<i>instruction book, incorrect drawing, illustration</i>
SL90-261	Recommendations for Cylinder Oil Feed Rate and Cylinder Oil Quality for VT2BF, K-EF, K/L-GF, K/L-GFC/GFCA, L-GB/GBE Engines	
SL90-262	Engine Protection against Crankcase Explosion	<i>overheating, misalignment, moment compensator, oil mist detector, monitoring</i>
SL90-264	Axial Vibration Monitoring 5-Cylinder S-MC/MCE Engines	<i>damper, alarm, amplitude</i>
SL90-265	Securing of Crosshead and Crankpin Shells during Overhaul of the Engine S/K/L-MC/MCE	<i>locking screw, breakage, examination</i>
SL90-269	K+L-90-80-67-55-45GF K+L-90-80-67-55-45GFCA/GB Stuffing box: Increased Garter Spring Tension for Sealing Rings and New Sealing Ring Tolerances	
SL90-271	Chain Tightener for Camshaft Drive L50, L60, L70 & L80MC	<i>tightening bolt, breakage</i>
SL90-272	L45-55-67-80-90GB/GBE Engines Crosshead Bearings of Tin-Aluminium	<i>service life, polishing</i>

## List of Service Letters

SL No.	Title	Keywords/Remarks
SL90-273	Crosshead Bearings of Tin-Aluminium L35MC and S26MC	<i>nickel dam, crankcase explosion, service life</i>
SL90-275	Oil Leaks from Piston L35MC	<i>piston crown, piston skirt, surface, machining</i>
SL91-277	Soft Iron Sealing ring between Cylinder cover and Cylinder Liner S/K/L-MC Engines	<i>cylinder cover, dismantling, guide tab</i>
SL91-278	Broken Screws for Lifting Clamps Connecting Cooling Jacket to Cylinder Liner S/K/L60-70-80-90MC Engines	<i>liner expansion, tension, tightening torque</i>
SL91-281	Screws for Piston Skirt S/K/L50-60-70-80-90MC Engines	<i>locking plate, loose, locking wire, washer</i>
SL91-282	Cylinder Oil Feed Rate Control and Flow/Level Alarm K/L-GF/GFC/GFCA, L-GB/GBE, S/K/L-MC/MCE	<i>lubricator, adjustment, load change dependent, LCD, actuator</i>
SL91-283	Super VIT Fuel Pumps: Fuel Oil Supply Pressure L50-60-70-80-90MC/MCE S50-60-70-80MC/MCE K80-90MC/MCE, K90MC-C	<i>shock absorber, inlet pressure</i>
SL91-286	Recommendations for Cylinder Oil Feed Rate and Cylinder Oil Quality for MC Engines	<i>load change, dosage, breaking-in, running-in, viscosity, TBN</i>
SL91-287	Load Diagram MC Engines	<i>limitation, power limit, maximum speed, overload, propeller curve</i>
SL92-291	Exhaust Valve Lifting Gear Arrangement S/K/L50-60-70-80-90MC	<i>actuator, roller guide, lifting arm</i>
SL92-293	Cylinder Cover Hydraulic Ring and Pertaining Sealing and Back-up Rings K/L67-80-90GF & GFC(A) L67-80-90GB/GBE S/K/L50-60-70-80MC/MCE K/L90MC/MCE & K80-90MC-C	<i>sealing material, synthetic rubber</i>



## List of Service Letters

SL No.	Title	Keywords/Remarks
SL92-301	High-temperature Corrosion on MC-type Cylinder Covers	<i>fuel valve nozzle, surface</i>
SL93-303	Cold Corrosion in Exhaust Valve Housings S/K/L-MC/MCE Engines	<i>gas duct, spindle guide, sulphuric acid</i>
SL93-312	Dry Cleaning/Water Washing of Turbocharger on Turbine Side During Running	<i>cleaning equipment, retrofit set</i>
SL93-313	Ribs of Thrust Bearing Housing – Bedplate MC Engines	<i>supporting rib, crack, rectification</i>
SL94-316	Fuel Valve, Tightened Condition Engine Types 50-90MC/MCE	<i>O-ring, disc-spring, bushing</i>
SL94-318	Guidelines for Adjustment of the Cylinder Oil Feed Rate on MC Engines	<i>running-in, breaking-in, load change, LCD, lubricator, TBN</i>
SL94-319	Improved Sealing Air System for Exhaust Valves L, K and S-MC Engines	<i>carbon build-up, air spring, valve stem</i>
SL94-322	MAN B&W Turbochargers – NA Type	<i>thrust bearing, overheat, sealing air pipe</i>
SL95-326	Fuel Valve Opening Pressure K/L/S-MC/MCE, K/L-GF(CA), L-GB(E)	<i>spring guide, spring disc, thrust spindle</i>
SL95-327	MC Engine Pistons Engine types 50-90 MC/MCE	<i>piston crown, piston rod, fretting, machining, spacer ring</i>
SL95-328	Cylinder Condition Report New Measuring Points for Cylinder Liner Wear K/L/S-MC/MC-C	<i>wear profile</i>
SL95-329	New Wear-Coating on Exhaust Valve Spindle Stem L, K and S-MC Engines	<i>plating, bonding, HVOF</i>
SL95-332	Grinding of Nimonic Exhaust Valve Spindle	<i>grinding stone, clogging-up, Chris-Marine, grinding procedure</i>

## List of Service Letters

SL No.	Title	Keywords/Remarks
SL96-339	Drain on Fuel Pumps between Top Cover and Pump Barrel S/K/L50-60-70-80-90MC/MCE	<i>sealing ring, blocking, drain hole</i>
SL96-341	Countermeasures against Cold Corrosion L, K and S50-90MC/MC-C Engines, Mark V	<i>cooling water flow, duct</i>
SL96-342	Fuel Pump Shock Absorber 50-90MC/MCE K/L45-55-67-80-90GB/GF/GFC/GFCA	<i>guide ring, crack</i>
SL97-344	Fuel Pump Suction Valve Sealing Ring on Slide 50-90MC/MC-C Engines	<i>valve housing, fuel index</i>
SL97-345	Reversing Link for Fuel Pump Roller Guide MC Engines	<i>guide block, crack</i>
SL97-347	Crack in Welds of Support Faces for Second Order Moment Compensators MC Engines	<i>chain drive, bracket</i>
SL97-348	Ignition in Crankcase	<i>relief valve, explosion, flame arrester, oil mist, scavenge box fire</i>
SL97-351	Built-on Power Take Off Gear MC Engines	<i>PTO, crankcase explosion, gearbox, oil mist detector</i>
SL97-352	Burnt Exhaust Valve Seats Lifting/Rotation Indicator K/L/S-MC Engines	<i>spindle, air piston</i>
SL98-355	Thick Shell Main Bearings S50-80MC, L50-90MC, K90MC <i>Action Code: Modification</i>	<i>design, guide pin, clearance, bearing cap</i>
SL98-356	Nimonic Exhaust Valve Spindles K/L/S-MC Engines	<i>seat, dent mark, grinding, instruction</i>
SL98-358	S50MC, Cylinder Liner Cracks Mk 3 Engines <i>Action Code: Casualty</i>	<i>ring groove, rounding, cylinder cut out, chamfering</i>



## List of Service Letters

SL No.	Title	Keywords/Remarks
SL98-359	The Year 2000 <i>Action Code: Modification/Commerical</i>	<i>electronic circuits, malfunctioning, millenia, year 2000</i>
SL99-365	Fuel Injection Valves – Spring Guides <i>Action Code: Modification</i>	<i>spring guide diameter, exhaust valve duct, combustion chamber</i>
SL99-366	Ability of Electronic Components on MAN B&W Engines to Function Correctly after the Millennium Change <i>Action Code: Commercial</i>	<i>millennium, electronic components</i>
SL99-367	Fees for Technical Assistance and Advisory Work on MAN B&W 2-Stroke Engines <i>Action Code: COMMERCIAL</i>	
SL99-368	Check of Camshaft Coupling Fitted Bolts Engine Types: S/K/L50-60-70-80-90MC/MC-C 4-12 Cylinders <i>Action Code: CASUALTY</i>	<i>chainwheel, alignment</i>
SL99-369	Service Activities in Korea <i>Action Code: COMMERCIAL</i>	<i>The content of this SL is no longer valid</i>
SL99-370	26 – 98MC/MC-C/MC-S Engines Reconditioning of Cylinder Liners	<i>scuffing, honing</i>
SL99-372	Year-2000 Emergency Precautions <i>Action Code: COMMERCIAL</i>	<i>millennium, Y2K, spare parts supplies</i>
SL99-373	Crankcase Relief Valve <i>Action Code: CASUALTY</i>	<i>crankcase explosion, flame arrester</i>
SL99-374	Service Letters in Electronic Form <i>Action Code: COMMERCIAL</i>	<i>electronic media, CD-rom</i>
SL00-375	50MC/-C/-S – 90MC/-C/-S Mk5 & Mk6 Engines Cast Iron Exhaust Valve Spindle Guide <i>Action code: MODIFICATION</i>	<i>bronze spindle guide, change of material</i>



## List of Service Letters

SL No.	Title	Keywords/Remarks
SL00-376	35-98MC Engines Lifting of Cylinder Liner <i>Action Code: MODIFICATION</i>	<i>lifting screw, tilting screw, cylinder liner overhaul</i>
SL00-377	Engine Room Safety <i>Action Code: IMMEDIATELY</i>	<i>crankcase explosion, failure, main bearing, safety, oil mist</i>
SL00-378	Thick Shell Main Bearings, Top Clearances Engine Types: S50-80MC, L50-90MC and K90MC <i>Action Code: WHEN CONVENIENT</i>	<i>shim thickness, feeler gauge</i>
SL00-379	Classification of Service Letters <i>Action Code: COMMERCIAL/FOR INFO</i>	<i>action codes</i>
SL00-381	Fees for Technical Assistance and Advisory Work on MAN B&W 2-Stroke Engines <i>Action Code: COMMERCIAL</i>	<i>prices for service</i>
SL00-382	PC-ring (Piston Cleaning ring) <i>Action Code: WHEN CONVENIENT</i>	<i>piston topland deposits, cylinder oil film, K/S 80-90-98 MC/MC-C</i>
SL00-383	26-98MC/MC-C/MC-S Engines Removal of Wear Ridges on Cylinder Liners <i>Action Code: AT FIRST OPPORTUNITY</i>	<i>piston overhaul</i>
SL00-384	Cylinder Condition – MC Engines <i>Action Code: MODIFICATION</i>	<i>piston ring, CPR-ring, piston cleaning ring, water mist catcher, piston crown topland</i>
SL00-385	Cylinder Oil Dosage <i>Action Code: WHEN CONVENIENT</i>	<i>marine mc-engines, cylinder lubrication guidelines, cylinder oil feed rates</i>
SL00-386	New Authorized Repair Shop in the United Arab Emirates, Dubai Drydocks, Dubai <i>Action Code: COMMERCIAL / FOR INFO</i>	<i>service network</i>
SL00-388	New Authorized Repair Shop in Benelux Van Brink Shipyard B.V., Rotterdam <i>Action Code: COMMERCIAL / FOR INFO</i>	<i>The content of this SL is no longer valid</i>



## List of Service Letters

SL No.	Title	Keywords/Remarks
SL01-389	New U-type Seal for Exhaust Valve Bottom Piece K/L/S26-70MC/MC(E)/MC-C/MC-S <i>Action Code: COMMERCIAL / FOR INFO</i>	<i>U-seal, O-ring</i>
SL01-390	Fees for Technical Assistance and Advisory Work on MAN B&W Two-Stroke Engines <i>Action Code: COMMERCIAL</i>	<i>prices for service</i>
SL01-391	60-90 MC Engines Fuel Pump Roller Guides <i>Action Code: WHEN CONVENIENT</i>	<i>crack development, umbrella type, non- umbrella type</i>
SL01-392	Cylinder Oils for MC Engines Operating on Low Sulphur Fuels <i>Action Code: COMMERCIAL / FOR INFO</i>	<i>BN70-80, ISO 8217, frequent bunkering</i>
SL01-393	26-70 MC/MC-C Engines Cooling Water Leakage <i>Action Code: WHEN CONVENIENT</i>	<i>sealing performance, Viton O-ring seals, U- type teflon sealing rings</i>
SL01-394	Manoeuvring Systems <i>Action Code: WHEN CONVENIENT</i>	<i>problems, marine incidents, pneumatic components</i>
SL01-395	S60MC-C and S70MC-C Retaining of Crankpin Bearing Shells during Overhaul	<i>tilting, shells falling off, impression marks</i>
SL01-396	Cylinder Lubricator, LCD function Modification to feed forward control signal	<i>lube oil dosage</i>
SL01-397	New W-seat Exhaust Valve Bottom Piece 26-98MC/MC-C/MC-S Engines <i>Action Code: WHEN CONVENIENT</i>	<i>wear parts performance</i>
SL02-398	Cylinder Oil Dosage L and K-MC/MC-C Marine Engines with Alpha Lubricator System <i>Action Code: WHEN CONVENIENT</i>	<i>reducing cylinder oil feed rates</i>
SL02-399	S26-60MC/MC-C with Slim-type Cylinder Liners Maintenance and Handling of PC-ring <i>Action Code: WHEN CONVENIENT</i>	<i>large bore engines, dummy-ring</i>



## List of Service Letters

SL No.	Title	Keywords/Remarks
SL02-400	MC/MC-C Engines (Thin-shell Main Bearings) Use of Hydraulic Jacks for Main Bearings <i>Action Code: AT FIRST OPPORTUNITY</i>	<i>L/S70MC, improper use, triple hydraulic jacks, main bearing overhaul</i>
SL02-402	New Authorized Repair Shop in the USA Golten Marine Company <i>Action Code: COMMERCIAL / FOR INFO</i>	<i>The content of this SL is no longer valid</i>
SL02-403	Introduction of Slide Fuel Valve <i>Action Code: WHEN CONVENIENT</i>	<i>optimise combustion, new generation, reduced fouling, less smoke</i>
SL02-404	Increase of Chrome Layer Thickness <i>Action Code: WHEN CONVENIENT</i>	<i>plating technology, reconditioning of piston crowns</i>
SL02-405	Check of Camshaft Coupling Fitted Bolts All engine types <i>Action Code: IMMEDIATELY</i>	<i>broken bolts, checking and maintenance schedule</i>
SL02-406	Fees for Technical Assistance and Advisory Work on MAN B&W Two-Stroke Engines <i>Action Code: COMMERCIAL</i>	<i>prices for service</i>
SL02-407	Control Air for Exhaust Valves <i>Action Code: AT FIRST OPPORTUNITY</i>	<i>slow-down function, 90 and 98 MC/MC-C, pressure transducers</i>
SL02-408	Level of BN (Base Number) and Viscosity in System Lube Oil during Operation <i>Action Code: WHEN CONVENIENT</i>	<i>combustion, scavenge air, leaking oil</i>
SL02-412	Fuel Pump Top Cover L/S35MC, S46-50-60-70MC-C (Fuel pumps without VIT) <i>Action Code: AT FIRST OPPORTUNITY</i>	<i>S-MC-C engines, cracks, bores</i>
SL03-413	Prevention of fire and explosion in the engine room Arrangements for fuel oil, lubricating oil and other flammable oils <i>Action Code: AT FIRST OPPORTUNITY</i>	<i>SOLAS regulations, IMO, oil leakage</i>




## List of Service Letters

SL No.	Title	Keywords/Remarks
SL03-414	Flex-Edge, Thick-shell Main Bearings Design update – Modification of existing spares Engine types: S/L50-80MC <i>Action Code: WHEN CONVENIENT</i>	<i>standard design, fatigue damage, retrofit instruction</i>
SL03-415	60-98MC/MC-C Engines Radial Type Starting Air Distributors <i>Action Code: WHEN CONVENIENT</i>	<i>impurities, failures, sticking of the piston valve slide</i>
SL03-416	Drain from Water Mist Catcher <i>Action Code: WHEN CONVENIENT</i>	<i>condensed water, increased wear</i>
SL03-417	Cylinder Oil Dosage Optimisation S/L/K-MC/MC-C/ME, Mk 6 engines with Alpha Lubricator System <i>Action Code: WHEN CONVENIENT</i>	<i>ACC Adaptive Cylinder oil Control</i>
SL03-418	MC/MC-C/MC-S engines Slide Fuel Valves, Pressure Test and Overhaul <i>Action Code: WHEN CONVENIENT</i>	<i>46 to 98-cm bore engines, 26, 35 and 42-bore engines</i>
SL03-419	46-70MC-C Crosshead Bearing Shells, Guidelines for Assembly <i>Action Code: WHEN CONVENIENT</i>	<i>mounting of crosshead bearing shells, guide shoes with marks</i>
SL03-420	Crankcase Relief Valves <i>Action Code: AT FIRST OPPORTUNITY</i>	<i>shields mounted, oil mist, flame arrester</i>
SL03-421	New Authorized Repair Shop in the Rep. of Yemen Al-Garmani Trading Corporation <i>Action Code: COMMERCIAL / FOR INFO</i>	<i>The content of this SL is no longer valid</i>
SL03-423	Mean Time between Overhaul Piston Overhaul <i>Action Code: WHEN CONVENIENT</i>	<i>guiding overhaul intervals, expected service life</i>
SL03-424	60-98MC/MC-C Engines (marine types only) Instr. for Lifting Gear for Fuel Pump Roller Guides <i>Action Code: WHEN CONVENIENT</i>	<i>operating safety, disengage / re-engage, revised procedure</i>
SL03-427	Fees for Technical Assistance and Advisory Work on MAN B&W Two-Stroke Engines <i>Action Code: COMMERCIAL</i>	<i>service rates, superintendent engineers</i>


## List of Service Letters

SL No.	Title	Keywords/Remarks
SL03-428	Unified Technical File for Compliance with IMO Annex VI MAN B&W Two-Stroke Engines <i>Action Code: COMMERCIAL / FOR INFO</i>	<i>Marpol 73/78, prevention of air pollution</i>
SL03-429	Lifting Tools for Main Bearing Cap Engine types: 60-98MC/MC-C, delivered 2000-2003 <i>Action Code: AT FIRST OPPORTUNITY</i>	<i>dangerous, check wire-lock, wire-pulley, hourglass-shaped roller</i>
SL03-431	90-98MC/MC-C Engines with OROS Combustion Chamber, Safety Valve for Exhaust Valve Actuator, Instruction for Checking of Function and Opening Pressure	<i>cam-slipping, malfunctioning, safety precaution</i>
SL04-432	Modification of Stuffing Box MC/MC-C Engines <i>Action Code: WHEN CONVENIENT</i>	<i>system oil BN, ring groove, parts plate</i>
SL04-435	All Engines Check of Hydraulic Tools – Personnel Safety Risk <i>Action Code: AT FIRST OPPORTUNITY</i>	<i>hydraulic couplings, hydraulic jacks, nuts, hose, CEJN product</i>
SL04-436	60-98 MC/MC-C type engines Cylinder Cover List using Double-Jib Crane <i>Action Code: AT FIRST OPPORTUNITY</i>	<i>threaded holes, eye bolts, too small, DIN 580</i>
SL04-437	S60MC-C Engines Lifting of Cylinder Liner <i>Action Code: AT FIRST OPPORTUNITY</i>	<i>thread hole, lifting and tilting screw, spot face</i>
SL04-438	Fees for Technical Assistance and Advisory Work on MAN B&W Two-stroke and Four-stroke Engines	<i>operators, prices charged, service centres</i>
SL04-439	K/L/S-MC/MC-C Engines Instruction books – Standard Tightening Torques <i>Action Code: WHEN CONVENIENT</i>	<i>updated procedure, correct tightening, bolted joints</i>
SL04-440	Fuel Pump Cavitation Engine types: K98MC/MC-C, S90MC-C <i>Action Code: AT FIRST OPPORTUNITY</i>	<i>Bosch type, effects on injection profile</i>
SL04-441	New MAN B&W Diesel Service Center in Malaysia <i>Action Code: COMMERCIAL / FOR INFO</i>	<i>Kuala Lumpur, service network</i>
SL04-442	New Authorized Repair Shop in Piraeus, Greece E. E. Roussakis – Ships Repairs <i>Action Code: COMMERCIAL / FOR INFO</i>	<i>service network</i>

## List of Service Letters

SL No.	Title	Keywords/Remarks
SL04-444	Extra Safety Precautions Scavenge Air Receiver Door <i>Action Code: AT FIRST OPPORTUNITY</i>	 <b>Video instruction</b>
SL04-445	Cylinder Oil Dosage Guidelines for Stationary MC-S Engines <i>Action Code: WHEN CONVENIENT</i>	<i>lubrication rate, Oros, topland, Alpha Lubricator, feed rate</i>
SL05-446	A Guideline to the Unified Technical File MAN B&W Two-stroke Engines <i>Action Code: COMMERCIAL / FOR INFO</i>	
SL05-447	New Recommendation for Overhauling of Exhaust Valves, Two-stroke Marine Engines with W-Seat Exhaust Valve and Slide Fuel Valves <i>Action Code: WHEN CONVENIENT</i>	
SL05-448	New Authorized Repair Shop at La Spezia, Italy Jobson Italia <i>Action Code: COMMERCIAL / FOR INFO</i>	
SL05-449	Updated Documentation K98MC/MC-C <i>Action Code: AT FIRST OPPORTUNITY</i>	
SL05-451	Updated Top Clearance Range Thick Shell Main Bearings Engine Type: K/L/S 50-90MC <i>Action Code: When Convenient</i>	
SL05-452	Heavy Fuel Oil Treatmet <i>Action Code: WHEN CONVENIENT</i>	
SL05-453	Fees for Technical Assistance and Advisory Work on MAN B&W Two-stroke and Four-stroke Engines <i>Action Code: COMMERCIAL</i>	
SL05-454	Tool for Lifting of Main Bearing Cap Engine types: 60-98MC/MC-C/ME/ME-C <i>Action Code: IMMEDIATELY</i>	
SL05-455	Cylinder Lubrication Guidelines Operation on Fuels with Varying Sulphur Contents All MC/MC-C and ME/ME-C type engines	
SL05-456	Unified Technical File <i>Action Code: COMMERCIAL</i>	

## List of Service Letters

SL No.	Title	Keywords/Remarks
SL05-460	Crosshead Bearing Condition <i>Action Code: AT FIRST OPPORTUNITY</i>	
SL06-462	Discordance between guide tool and fuel valve bore L/S60-70MC-C	
SL06-463	New Booklet on Separation Performance Standard	 <b><i>New Booklet</i></b>
SL06-464	Graviner Mk6 Oil Mist Detection System Precautionary Exchange of Sensor Sample Probes	
SL06-465	Technical Service <i>Action Code: Commercial / for info</i>	
SL06-466	New Addresses – Service Centers in the USA <i>Action Code: Commercial / for info</i>	
SL06-467	New Design of High-Pressure Hydraulic Hoses Personnel Safety – Protective Hose All Engines	
SL06-469	Accumulator Charge Pressure Overhaul and Maintenance, ME Engines <i>Action Code: WHEN CONVENIENT</i>	
SL07-471	Fees for Technical Assistance and Advisory Work from MAN Diesel PrimeServ <i>Action Code: COMMERCIAL</i>	
SL07-473	Technical Service <i>Action Code: Commercial / for info</i>	
SL07-474	Lifting Tool for Crosshead Bearing Cap 80-98MC/MC-C and ME/ME-C Engines <i>Action Code: IMMEDIATELY</i>	
SL07-475	Technical Service <i>Action Code: Commercial / for info</i>	



## List of Service Letters

SL No.	Title	Keywords/Remarks
SL07-477	MC and MC-C Engines with Alpha Lubricator Lower Limit Adjustment Instruction Cylinder Lube Oil Feed Rate <i>Action code: WHEN CONVENIENT</i>	
SL07-478	New MAN Diesel Service Center in Panama	
SL07-479	Cylinder Lubrication New ACC Guidelines All MC/MC-C and ME/ME-C type engines	
SL07-480	Low Load Operation for MC and ME engines Long Term Operation Mode	
SL07-481	Lubricating Oil Filter With Notch Wire Element	
SL07-483	Condition-based Piston Overhaul MC/MC-C and ME/ME-C type engines Container Vessels, Bulk Carriers and vessels with similar trade pattern	
SL07-484	Cylinder Condition Damaged Water Mist Catchers <i>Action code: WHEN CONVENIENT</i>	
SL07-488	Work Inside Cylinder Liners <i>Action code: IMMEDIATELY</i>	
SL07-490	Fees for Technical Assistance and Advisory Work from MAN Diesel PrimeServ <i>Action Code: COMMERCIAL</i>	
SL08-491	Omission of Cylinder-Cover-Mounted Safety Valves All MAN B&W Two-stroke Engines <i>Action Code: WHEN CONVENIENT</i>	<i>combustion pressure, IACS, safety valve, cylinder cover lifting</i>
SL08-492	Rubber Diaphragm Sealings in Crankcase Oil Outlets <i>Action Code: WHEN CONVENIENT</i>	



## List of Service Letters

SL No.	Title	Keywords/Remarks
SL08-495	Condition Based Overhaul of Crank-train Bearings MC/MC-C and ME/ME-C Type Engines <i>Action Code: WHEN CONVENIENT</i>	<i>OMD, BTM, BWM</i>
SL08-496	Cleaning and Inspection of Cylinder Cover Contact Face and Combustion Area MAN B&W 60-98MC/MC-C Engines <i>Action Code: WHEN CONVENIENT</i>	<i>engine room crane, cylinder cover supports</i>
SL08-497	New Service Letter Layout <i>Action Code: COMMERCIAL</i>	<i>action codes</i>
SL08-498	Spark Erosion Update <i>Action Code: IMMEDIATELY</i>	<i>shaftline earthing device, spark erosion, main bearings</i>
SL08-499	Slide Type Fuel Valve Nozzles Extended TBO <i>Action Code: COMMERCIAL</i>	<i>hip-compound nozzle, fuel valve nozzle overhaul</i>
SL08-501	Low Load Update Down to 40% load <i>Action Code: WHEN CONVENIENT</i>	<i>low load benefits, soot, slide-type fuel valves</i>
SL09-502	Laying Up Vessels Updated recommendations <i>Action Code: WHEN CONVENIENT</i>	<i>main engine preservation, protection of electronic equipment</i>
SL09-503	Load-up Program New load-up recommendations for bore sizes 80 cm and up	
SL09-504	New Lifting and Tilting Tool Cleaning and Inspection of Cylinder Cover Contact Face and Combustion Area	