Draw.no: *528 /67* - replace 528/21

Revision date: 0202 *Instruction number: 1502*

Routine Maintenance Schedule 40.000 hours

Valid for Bergen K-type engines for mdo or hfo operation. Marine application.

Rolls-Royce

a) See service manual instruction no.

b) See separate instructions

c) See engine alarm list

The schedule is only valid for normal operating conditions as defined in the contracts, service agreements or relevant technical document-ation from Rolls-Royce.

The intervals in this schedule are for guidance only!

This schedule may only be changed by a service letter from Rolls-Royce.

Control/Spot check ●
Clean/Adjust/Lubricate ○
Overhaul/Change ▽

Item No.	Instr. No. a)		500	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000	7000	8000	9000	10000	11000	12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000	23000	24000	25000	26000	27000	28000	29000	30000	31000	32000	33000	34000	35000	36000	37000	38000	39000	40000	Item No.
1		**CYLINDER HEADS**																																													**1**
101	2405	Inlet- and exhaust valve rotocaps		●		●		●		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	101
102	2408	Safety - and indicator valves																									▽																			▽	102
103	2410	Starting valves															▽										▽										▽									▽	103
104	1601	Valve clearance. Also approx.100h.after refitting of cyl.head	○				○					○			○		○			○		○			○		○			○		○			○			○			○		○			○	104
105	1702	Cylinder head bolts : retighten approx. 100 hrs after refitting of cyl.head	○																																											105
106	2401	Rocker arm system for inlet- and exhaust valves										●					●					●					▽					●					●					●				▽	106
107	4301	Exhaust- and inlet valve drive mechanism/seals															●										●										●									●	107
108	2407	Inlet- and exhaust valves / valve guides										●					▽					●					▽					●					▽					●				▽	108
109	7208	Fuel injection valves		○			○					○		○		○		○		○		○		○		○		○		○		○		○			○		○			○		○			109
110		Cylinder head: Pressure test and max.firing pressure (ignition timing)										●					●					●					●					●					●					●				●	110
2		**FUEL OIL SYSTEM**																																													**2**
201	7205	Diesel oil filter (Change elements and clean at pressure drop)																																												201
202	8308	Fuel oil priming- and valve gear lubricating oil pump with drive															●										▽										●									▽	202
203	7207	For MDO operation: Fuel injection pump drive										●					○					●					○					●					○					●				○	203
204	7206	For MDO operation: Fuel injection pump															●										▽										●									▽	204
205	7206	Fuel injection pump: Erosion plug															●										●										●									●	205
206	7206	Fuel injection pump: Fuel rack (lubricate weekly and before start)																																													206
207		Flexible fuel connections															●										●										●									●	207
208	7207	For HFO operation: Fuel injection pump drive					○					○			○		○			○		○			○		○			○		○			○		○			○		○			○	208
209	7206	For HFO operation: Fuel injection pump					○					○			○		○			○		○			○		▽			○		○			○		○			○		○			▽	209
210	b)	For HFO operation: HFO module (calibration of viscosimeter)										●					●					●					●					●					●					●				●	210
211	b)	For HFO operation: HFO/MDO Switch over valve		●		●		●		●		○	●	●	●	●	○	●	●	●	●	○	●	●	●	●	○	●	●	●	●	○	●	●	●	●	○	●	●	●	●	○	●	●	●	●	○	211
3		**CYLINDER LINERS**																																													**3**
301	2301	Remove liner/check water jacket/replace sealing																									●																			▽	301
302	2302	Honing																									▽																			▽	302
303	2301	Antipolishing ring															○										○										○									○	303
4		**PISTONS / CONNECTING RODS**																																													**4**
401	3201	Piston															●										○										●									○	401
402	3204	Piston rings (replace after honing of cyl. liner)															●										▽										●									▽	402
403	3201	Gudgeon pin bushing																									●																			●	403
404	3201	Connecting rods. Ovality control																									●																			●	404
405	3202	Big end bearings										●					●					●					●					●					▽					●				●	405
5		**CRANKSHAFT**																																													**5**
501	2201	Main bearings and thrust washers										●										●										●					●					●				▽	501
502	8101	Gear wheel drive. (Pump end)										●					●					●					●					●					●					●				●	502
503	3101	Torsional vibration damper : Fluid sample																									●										●									●	503
504	3102	Crankshaft deflection		●									●					●					●						●				●					●						●				504
505	b)	Flexible coupling. Rubber elements and damper plates				●						●					●					●					●					●					●					●				●	505
6		**CAMSHAFTS**																																													**6**
601	4101	Inlet- and exhaust cams										●					●					●					●					●					●					●				●	601
602	4101	Fuel cams										●					●					●					●					●					●					●				●	602
603	4101	Camshaft: Bearings and thrust washers															●										●										▽									●	603
604		Camshaft drive gears																									▽																			▽	604
605	4102	Camshaft drive chain		●			●					●					●					▽					●					●					▽					●				●	605
606	5103	Start air distributor with drive										○					○					○					○					○					▽					○				○	606
607	5202	Governor drive										●					●					●					▽					●					●					●				▽	607
7		**LUBRICATING OIL**																																													**7**
701	8204	Main lubricating oil pump																				●															▽										701
702	8206	Lub.oil filter, by-pass valves and filter elements (Change at pressure drop)																																													702
703	b)	Centrifugal separation filter lubr.oil. when applicable (Clean every 500 h.)																																													703
704		Lubr.oil analysis to lub.oil supplier		●			●			●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	704
705		Clean lubr.oil tank/sump when changing lubr.oil.															○										○										○									○	705
706		Lubricating oil priming pump (electrical)										●					●					●					●					●					●					●				●	706
707	8301	Valve gear lub. oil system: Lubricating oil tank				○				○			○		○		○		○		○		○		○		○		○		○			○		○			○		○			○		○	707
708	8303	Valve gear lub. oil system: Filter (Clean daily)																																													708
709	8304	Valve gear lub. oil system: Strainer (Clean weekly)																																													709
8		**TURBO CHARGERS**																																													**8**
801	b)	Turbo charger : Rotor (See sign on Turbocharger housing)																																													801
802	b)	Turbo charger : Bearings (See sign on Turbocharger housing)																																													802
803	b)	Turbo charger : Lub.oil change every 5000h.and 100 hours after overhaul										○					○					○					○					○					○					○				○	803
804	b)	Turbo charger: Air filters (Clean when dirty)																																													804
805	7106	Turbo charger: Waterwashing of compressor (Daily)																																													805
9		**COOLERS AND COOLING WATER**																																													**9**
901	b)	Lubr.oil cooler with corrosive protection (Clean when necessary)										○					○					○					○					○					○					○				○	901
902	b)	Jacket water cooler with corrosive protecton (Clean when necessary)										○					○					○					○					○					○					○				○	902
903	b)	Charge air cooler with corrosive protection										○					○					○					○					○					○					○				○	903
904		Cooling water qualities (HT/LT/jacket/raw) (Checked monthly)																																													904
905		LT / sea water pump with drive															▽					●					▽					●					▽					●				▽	905
906	8503	HT / jacket water pump with drive															●										▽										●									▽	906
10		**ALARM / CONTROL SYSTEM**																																													**10**
1001	5301	Governor with linkage and couplings (Check Weekly)										○					○					○					▽					○					○					○				▽	1001
1002	5501	Overspeed protection and automatic stop						●					●			●			●			●			●			●			●			●			▽			●			●				1002
1003	b)	Oil mist detector when applicable. (Change filter when necessary)							●			○			●		○			●		○			●		○			●		○			●		○			●		○			●	○	1003
1004	d)	Temperature and pressure switches				○						○			○			○			○			○				○			○			○				○			○			○			1004
1005		Thermocouples in exhaust system before turbocharger																																												▽	1005
1006		Pickups															○										○										○									○	1006
11		**MISCELLANEOUS**																																													**11**
1101		Exhaust pipe insulation																																												▽	1101
1102	2102	Resilient mount. of engine. To be checked for cracks/damages (Anually)																																													1102
1103		Screw and pipe connections - outside and inside on engine		●				●				●		●		●		●		●		●		●		●		●		●		●		●		●		●		●		●		●			1103