



## MTBF & MTBO IFN XPI

### Applies only if the following requirements are met:

- Only for products mounted according to Scania installation requirements and with an approved installation report issued
- Only valid if Scania original parts are used
- Inspections must be done according to inspection intervals following the instructions in Scania Operators Manual (OPM)
- The inspection interval must not be exceeded
- Scania LDF oil are used, or the oil fulfil the quality requirements described in the OPM
- Fuel specification according to OPM
- Coolant specification according to OPM
- Operating altitude accordance to Scania Data handbook

### Following conditions will affect the maintenance intervals and the expected overhaul interval for the engine:

- Extended operation at low idle
- Minimum cool down periods after high load factor operation
- Operating the engine beyond the guidelines for the engine rating
- Operating the engine at loads that are greater than the rated load
- Operating the engine at speeds that are greater than the rated speed
- Use of the engine for an application that is not approved

### The need for an overhaul is generally indicated by:

- Increased fuel consumption and reduced power
- Increased oil consumption
- Increased levels of noise and vibrations

A marine engine's published MTBF or MTBO does not mean that every marine engine will operate the number of hours or years listed without requiring part replacements and/or unscheduled repair events. Noncompliance with Scania's instructions as per the above mentioned requirements may necessitate repair or replacement of engine parts and accessories earlier than the published MTBF or MTBO. The MTBF and the MTBO periods specified in this document are only estimates and does not reflect the warranty period. For marine engine warranty, the conditions of warranty is set forth in the "Supplementary Provisions to General Conditions – Scania Engines" and "General Conditions of Delivery and Warranty - Scania Engines (Duplicate of Orgalime S2012 - Brussels, March 2012)" contained in the Scania Global Warranty Manual (as amended from time to time).

**Marine IFN - XPI**

|                                         | MTBF      | MTBO<br>20 000h | Comments                               |
|-----------------------------------------|-----------|-----------------|----------------------------------------|
| <b>01 Engine</b>                        |           |                 |                                        |
| Turbo charger                           | 15 000    |                 |                                        |
| Cylinder head                           |           | 20 000*         | *Control/replace at major overhaul     |
| Exhaust valves                          |           | 20 000          |                                        |
| Intake valves                           |           | 20 000          |                                        |
| Piston                                  |           | 20 000          |                                        |
| Piston rings                            |           | 20 000          |                                        |
| Cylinder liners                         |           | 20 000          |                                        |
| O-rings cylinder liners                 |           | 20 000          |                                        |
| Connecting rod bearing*                 |           | 20 000*         | *Control/replace at major overhaul     |
| Crankshaft bearings*                    |           | 20 000*         | *Control/replace at major overhaul     |
| Oil pump                                |           | 20 000          |                                        |
| Roller tappet*                          |           | 20 000*         | *Control/replace at major overhaul     |
| Crank shaft seals*                      |           | 20 000*         | *Control/replace at major overhaul     |
| Crankshaft damper                       |           | 20 000          |                                        |
| Intermediate timing gear roller bearing |           | 20 000          |                                        |
| <b>02 Cooling system</b>                |           |                 |                                        |
| Coolant pump**                          | 10 000    |                 | **Check at valve-, injector adjustment |
| Coolant hose**                          |           | 20 000          | **Check at valve-, injector adjustment |
| Charge air cooler**                     |           | 20 000          | **Check at valve-, injector adjustment |
| Heat exchanger                          |           | 20 000          |                                        |
| Poly V-belt***                          | Max 5 000 |                 | ***Check at maintenance                |
| Idler roller Poly V-belt**              | 10 000    |                 | **Check at valve-, injector adjustment |
| Belt tensioner Poly V-belt**            | 10 000    |                 | **Check at valve-, injector adjustment |
| Sea water pump                          | 10 000    |                 |                                        |
| <b>03 Fuel System</b>                   |           |                 |                                        |
| Injectors                               | 7 500     |                 |                                        |
| Feed pump                               |           | 20 000          |                                        |
| High pressure pump                      |           | 20 000          | *Control/replace at major overhaul     |
| <b>16 Electrical system</b>             |           |                 |                                        |
| Alternator                              | 10 000    |                 |                                        |
| Starter                                 | 10 000    |                 |                                        |