# Commissioning Information

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| 1.1 Engine Details | 707519\_IM – sec. 1.1 |
|  | Port | Starboard |
| Model |   |   |
| Serial No. |   |   |

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| 1.2 Commissioning Agent | Engine Owner |
| Name |   | Name / Company |   |
| Company |   | Address |   |
| Address |   | Email |   |
| Email |   | Phone |   |
| Phone |   | Country |   |
| Country |   | Area of Operation |   |

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| 1.3 Installation Approval |
| STEYR MOTORS does not make physical engine installations. This Commissioning Report should be regarded as a tool to systematically check and assess the installation. That does not mean that by the check and signature on this form, the responsibility is either shared or overtaken by the person/company doing the check. The responsibility for the installation remains with the installing party or company. Any extras and/or alterations to the standard engine installation must be noted here or attached separately to this commissioning report for the installation to be considered for warranty approval. Any unapproved extras or alterations may invalidate the warranty.  |
| **Installation generally meets STEYR MOTORS installation recommendations:** |
| [ ]  **YES** | See Improvement Points **(I)** listed in the table of section 5.1  | [ ]  **NO** | See Critical Points **(C)** listed in the table of section 5.1 |
| Signature: | Place, Date:  |

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| 1.4 Start of Warranty | CS003\_Dokument\_Marine Engines -Limited Engine Warranty\_06.03.2020 |
| Registration Date |   | Date the vessel is delivered to the customer. Refer to chapter “Owner Registration” in Steyr Motors Limited Warranty. |

# General Information

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| 2.1 Parties Concerned |
| Selling Dealer |   |
| Selling Distributor |  (If different from selling dealer) |
| Vessel Builder |   |
| Sale Type | [ ]  Retail | [ ]  Wholesale | [ ]  Repetitive\* |
| \***Section 3. Installation** not required if installation is **IDENTICAL** to original commissioning of the repetitive sale.Same as serial number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ submitted on \_\_\_\_\_\_/\_\_\_\_\_\_/\_\_\_\_\_\_\_\_\_\_\_\_. |

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| 2.2 Vessel Description | 707519\_IM – sec. 2.2 |
| Model |   | Hull Type |   |
| Name |   | HIN (Hull Identification Number) |   |
| Date of Manufacture |   | Hull Material |   |
| Displacement |  kg | Motor/Sail |   |
| Max. Passengers |   | Load Capacity |  kg |
| LOA |  m | Beam |  m |
| LWL |  m | Draft |  m |
| Fuel Tank Capacity |  L | Water Tank Capacity |  L |

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| 2.3 Application Information |
| Max. expected altitude (if not sea level) |  m | Max. expected ambient air temperature |  °C |
| Max. expected tilt angle in operation |  ° | Min. expected ambient air temperature |  °C |
| Expected average annual operation hours |  hrs | Max. expected sea water temperature |  °C |
| Expected percent of high load operation |  % | Expected percent of idle operation |  % |

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| 2.4 Duty Rating | 707245\_OM – sec. W1 |
| Commercial | Pleasure |
| [ ]  | High Output ≤300 hrs/yr | [ ]  | Intermittent ≤1500 hrs/yr | [ ]  | Medium Continuous ≤3000 hrs/yr  |[ ]  ≤300 hrs/yr |

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| 2.5 Preservation History | 707500\_SM – sec. D5 |
|  | Date: | Issuer: | Date: | Issuer: |
| 1st Preservation: |   |   |   |   |
| 2nd Preservation: |   |   |   |   |

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| 2.6 Transmission / Propulsion | 707519\_IM – sec. 6 |
| Drive Type | [ ]  Shaft | [ ]  Sterndrive | [ ]  Jet | [ ]  Other |
| Model |   |
| Serial No. | Port |   | Stbrd |   |
| Coupler (if not supplied by SMB) | Make |   | Model |   | Serial No. |   |
| Propeller / Impeller | Make |   | Model |   | Pitch |   | Dia. |   |

# Installation

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| 3.1 Mounting | 707519\_IM – sec. 7.3, 7.4, 7.5 |
| Port | Stbrd | **Confirm that the following points have been inspected.** |
| [ ]  | [ ]  | Engine base – structure checked |
| [ ]  | [ ]  | Rear mounts fitted to gearbox (not directly to engine) |
| [ ]  | [ ]  | Engine aligned according to the manual and nuts torqued to 120 Nm  |
| [ ]  | [ ]  | Maintenance space around engine as specified in manual |
| Nose Up |  ° | Engine installation angle (negative angle denotes nose down) |

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| 3.2 Fuel | 707519\_IM – sec. 9 |
| Fuel Type | [ ]  EN590 | [ ]  Other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  |
| Pre-Filter | Model |   | Flow Rate |  L/h |
| Water Separator (if fitted) | Model |   | Flow Rate |  L/h |
| Supply Line Dimensions | Length |  m | ID |  mm |
| Return Line Dimensions | Length |  m | ID |  mm |
| Supply Line Material | [ ]  Rigid | [ ]  Flexible | [ ]  Stainless Steel | [ ]  Other \_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Fuel Tank Height |  m | [ ]  above / [ ]  below engine inlet |
| Fuel Tank | [ ]  non return valve fitted | [ ]  tank vent unrestricted |

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| 3.3 Electrical | 707519\_IM – sec. 18 |
| System | Voltage | [ ]  12V | [ ]  24V | 2 Pole System | [ ]  Equipped | [ ]  Tested |
| Load\* |  A | \*Total electrical load required by vessel. See section 3.9 |
| Battery | CCA |   | Total Cable Length (+) & (-) |  m |
| Ah |   | Cable cross section |  mm²/AWG |
| Auxiliary Battery | CCA |   | Total Cable Length (+) & (-) |  m |
| Ah |   | Cable cross section |  mm²/AWG |
| Second Alternator | [ ]  Port | [ ]  12V | [ ]  24V | Brand / Model |   |
| [ ]  Stbrd | [ ]  12V | [ ]  24V | Brand / Model |   |
| Main Switches and Fuses | Port | Starboard |
| Main Switch Short Circuit Current |  A |  A |
| Type of Fuse |   |   |
| Fuse Rating |  A |  A |

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| 3.4 Exhaust System | 707519\_IM – sec. 10 |
| Type | [ ]  Wet | [ ]  Dry |  |
| Setup | [ ]  Muffler | [ ]  Waterlock | [ ]  Air Vent |  |
| Height of turbo centerline above waterline |  mm | Height of highest point above waterline |  mm |
| ID @ outlet |  mm | ID @ turbo |  mm |

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| 3.5 Cooling System | 707519\_IM – sec. 8.2, 8.3, 8.4 |
| [ ]  Raw water pump installed | Raw water pump brand/model\* |   |
| [ ]  Raw water pump supplied by SMB | Raw water pump flow rate\* |  L/h |
| \*When pump not supplied by SMB | Raw water strainer brand/model |   |
| Raw water strainer flow capacity |  L/h |
| Suction hose diameter |  mm |

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| 3.6 Instruments / Control System | 707245\_OM – sec. C1, C2 |
| Instrument Panel | [ ]  Standard | [ ]  SOLAS | [ ]  Dual Station |
| Throttle Control | [ ]  Mechanical | [ ]  Electronic | [ ]  Marex |
| Display | [ ]  SCC2 | [ ]  Other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| 3.7 Engine Compartment Ventilation | 707519\_IM – sec. 11.4 |
| Intake Area |  mm² | Ventilation Fan Installed | [ ]  Yes | [ ]  No |
| Outlet Area |  mm² | Ventilation Fan Capacity |  m³/min |

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| 3.8 Fitted Engine Accessories |
| Description | Part No. | SMB Supplied | Operation Confirmed |
|   |   | [ ]  | [ ]  |
|   |   | [ ]  | [ ]  |
|   |   | [ ]  | [ ]  |
|   |   | [ ]  | [ ]  |
|   |   | [ ]  | [ ]  |
|   |   | [ ]  | [ ]  |
|   |   | [ ]  | [ ]  |
|   |   | [ ]  | [ ]  |
|   |   | [ ]  | [ ]  |

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| 3.9 Electrical Load  | (Devices supplied by circuits which are charged by engine alternators.) |
| Device | Make / Model | Battery Circuit | Current |
| Standard | Auxillary |  |
|   |   | [ ]  | [ ]  |  A |
|   |   | [ ]  | [ ]  |  A |
|   |   | [ ]  | [ ]  |  A |
|   |   | [ ]  | [ ]  |  A |
|   |   | [ ]  | [ ]  |  A |
|   |   | [ ]  | [ ]  |  A |
|   |   | [ ]  | [ ]  |  A |
|   |   | [ ]  | [ ]  |  A |
|   |   | [ ]  | [ ]  |  A |

# Sea Trial

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| 4.1 Pre-Checks |
| Port | Stbrd | Confirm that the following points have been inspected. |
| [ ]  | [ ]  | Oil Level Checked |
| [ ]  | [ ]  | Coolant Level Checked |
| [ ]  | [ ]  | Gear Oil Level Checked |
| [ ]  | [ ]  | Fuel System Bled |
|   |   | mbar | Fuel Suction Pressure @ Idle | 500 mbar max. |
|   |   | mbar | Fuel Backflow Pressure @ Idle | 1000 mbar max. |
|   |   | A | Fuel Pump Current @ Idle | 10A (4-Cyl.) 15A (6-Cyl.) max. @ 20°C |
| 4.2 Trial Measurements |
|   | km/h | Vessel Top Speed |
|   | kg | Vessel Load Capacity @ Trial |
|  |   | 1/min | WOT RPM |
|  |   | mbar | Exhaust Back Pressure @ WOT | 150 mbar max. |
|   |   | mbar | Fuel Suction Pressure @ WOT | 500 mbar max. |
|   |   | mbar | Fuel Backflow Pressure @ WOT | 1000 mbar max. |
|   |   | A | Fuel Pump Current @ WOT | 10A (4-Cyl.) 15A (6-Cyl.) max. @ 20°C |
|   |   | °C | Maximum Engine Coolant Temp. (ECT) |
|   |   | °C | Maximum Engine Exhaust Temp. (EXT) |
|   | °C | Maximum Engine Compartment Temp. |
| 4.3 Post-Checks |
| [ ]  | [ ]  | Oil Leakage |
| [ ]  | [ ]  | Coolant Leakage |
| [ ]  | [ ]  | Gear Oil Leakage |
| [ ]  | [ ]  | Warning Indicators / Service Codes |
| 4.4 Photo / Attachment Checklist |
| [ ]  | Vessel | [ ]  | Logfile @ WOT |
| [ ]  | Engine Bay | [ ]  | Logfile @ Idle |
| [ ]  | Propulsion System | [ ]  | Engine ECU Report |
| [ ]  | Fuel Pre-Filter | [ ]  | Engine ECU Setup |
| [ ]  | Raw Water Separator | [ ]  | Load Profile |
| [ ]  | Exhaust System | Engine must not have greater than 30 operating hours at time of sea-trial for warranty consideration. |
| [ ]  | Control Station |
| [ ]  | Dashboard |
| [ ]  | Throttle Control |
| [ ]  | Secondary Control Station (if fitted) |

**All checklist items must be attached with this report and forwarded to STEYR Motors at:**

commissioning@steyr-motors.com

* This report and attachments listed above should reach commissioning@steyr-motors.com not later than 60 days from the date of sea trial.
* To be considered for warranty registration approval, engine must be commissioned within 12 months from the date of dispatch from factory and less than 30 engine hours, whichever comes first.
* For detailed notes on installation see the “Installation Manual.”

# Finalization

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| 5.1 Improvement Points / Critical Points  |
| I | C | Details |
| [ ]  | [ ]  |   |
| [ ]  | [ ]  |   |
| [ ]  | [ ]  |   |
| [ ]  | [ ]  |   |
| [ ]  | [ ]  |   |
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| 5.2 End-User Handover |
| [ ]  | Warranty Coverage | By signing this report, the end-user confirms the installation of the STEYR Motors products detailed above has been performed to his/her satisfaction and all components have been demonstrated with faultless operation. |
| [ ]  | Warranty Registration |
| [ ]  | Engine Oil Dipstick |
| [ ]  | Top-up Procedure |
| [ ]  | Coolant Level |
| [ ]  | Starting / Stopping Procedure |
| [ ]  | Warning System |
| [ ]  | Owner’s Manual |

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|   |   |   |   |
| Date | End-User | Date | Commissioning Agent |

By signing this Report, the end-user agrees that STEYR Motors processes personal data according to point (b) of Art. 6 (1) of the General Data Protection Act in order to provide you with the STEYR MOTORS LIMITED WARRANTY for your STEYR product.

Your personal data will be stored for the time of your STEYR MOTORS LIMITED WARRANTY or a maximum of five years after the fulfilled warranty registration by STEYR MOTORS. You have the right to request access and rectify or erase your personal data or restrict or object data processing as contractual requirement. You are obliged to provide your personal data for your warranty registration. If you reject providing the data requested above, STEYR MOTORS cannot provide any STEYR MOTORS LIMITED WARRANTY to you.

Contact details of the data controller: STEYR MOTORS BETRIEBS GmbH, Im Stadtgut B1, A-4407 Steyr, Austria

# Photos

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| **Photos including but not limited to:** |
| * Vessel
* Exterior Waterline
* Control Station
* Control Panel
* Engine Compartment
 | * Exhaust System
* Ventilation System
* Fuel Lines, Filters, and Tank
* Water Lines, Hoses, Filters
* Batteries, Electrical Connections
 |