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| 02   | 05.10.13               | Updated  | OAN             | Oro         | Tnu      |
| 01   | 10.12.02               | AS BUILT   | ISO             |             |          |
| Proj.rev.code  | Issue date             | Reason for issue   | Made by         | Chk'd by    | Appr. by |
| P.O.Number   |                        | Package Title<br><b>13 TONS UTILITY AND CONSTANT TENSION WINCH</b> |                 |             |          |
| Tag.No.(s)<br><b>25.054-3918-001</b>   |                        |  |                 |             |          |
| <br>supplier logo<br>Stavanger department |                        |  | For project use |             |          |
|  |                        |  | 1               | 2           | 3        |
| Date   |                        |  | Sign.           |             |          |
| Rental no: 3918 / 4247   |                        |  |                 |             |          |
| Project Code   |                        | Area/Location  |                 | System Code |          |
| Document title (must be identical to entry on SMDR)<br><b>MECHANICAL DATA SHEET FOR MODEL HV13-1200-70</b>                   |                        |  |                 |             |          |
| SDRL Code(s)   |                        |  |                 |             |          |
| Project Document No.   | <b>25.054-3918-001</b> |  |                 | Page 1 of 3 |          |

## MECHANICAL DATA SHEET MODEL HPU HV13-1200-70

|     |                          |  |
|-----|--------------------------|--|
| 1.1 | <b>TYPE OF EQUIPMENT</b> | Hydraulic driven winch, SWL 13T lifting          |
| 1.2 | Owner                    | K. Lund Offshore as, Skvadronveien 29, 4050 SOLA |
| 1.3 | Supplier                 | K. Lund Offshore as, Skvadronveien 29, 4050 SOLA |
| 1.4 | Manufacturer             | K. Lund Offshore as, Skvadronveien 29, 4050 SOLA |
| 1.5 | Serial number            | 25.054-3918                                      |
| 1.6 | Number ea.               | 2  |
| 1.7 | Year of manufacture      | 07/2002  |

## 2. MECHANICAL

|      |   |  |
|------|---|--|
| 2.1  | <b>CODES</b>  | NPD Regulations relating to Lifting Appliances<br>DNV Rules for Certification of Lifting Appliances<br>DNV Rules for planning and execution of Marine operations |
| 2.2  | <b>CERTIFICATES</b>   | ILO Form 3   |
| 2.3  | <b>AMBIENT CONDITIONS</b><br>Temperature<br>Atmosphere<br>Inertia<br>Hazardous area | -20 to + 30 °C<br>Offshore, saliferous, 100% humidity<br>+/- 0.1 g horizontal, any direction, +/- 0.2 g vertical<br>Zone 1                                       |
| 2.4  | <b>TYPE</b>   | HV13-1200-70   |
| 2.5  | <b>DESIGN CAPACITY</b>  | 10 T SWL lifting (100 kN) full drum<br>13 T SWL lifting (130 kN) half drum   |
| 2.6  | <b>HOISTING SPEED</b>   | 0 – 90 m/min at pull 60kN with 0 – 500 l/min<br>0 – 40 m/min at pull 100kN with 0 – 500 l/min<br>0 – 40 m/min at pull 130kN with 0 – 500 l/min                   |
| 2.7  | <b>SERVICE</b>  | Hoisting/lowering 10 T SWL (Material handling)<br>Hoisting/lowering 13 T SWL (Material handling)<br>Constant tension   |
| 2.8  | <b>DESIGN PERFORMANCE</b>   | 13Ton @ 3rd layer with 28mm wire   |
| 2.9  | <b>CLASSIFICATION OF MACHINERY (FEM)</b>  | M5   |
| 2.10 | <b>WIRE ROPE</b><br>Size mm<br>Type   | Ø28<br>35 x 7, low rotation  |
| 2.11 | <b>DRUM</b><br>Barrel diameter x length mm<br>Capacity m<br>Number of layers        | Ø559 x 1200<br>550<br>6  |

## MECHANICAL DATA SHEET MODEL HPU HV13-1200-70

### 3. HYDRAULICS

|     |  |      |  |
|-----|--|------|--|
| 3.1 | <b>DRIVE SYSTEM</b>                            |      | 1 ea hydraulic axial piston motor 225 cm <sup>3</sup> /rev<br>SAMDYRAULIKK H2V-226-S-LZ-R-2P1-PE1-210-100-M-NBR  |
| 3.2 | <b>MACHINERY</b><br>Gear<br>Brake              |      | 1 ea 2 stage planetary gear unit<br>1 ea failsafe, spring applied, pressure released multidisc brake             |
| 3.3 | <b>OIL SUPPLY</b><br>Pressure<br>Flow<br>l/min | barg | max 250<br>max 500   |
| 3.4 | <b>OIL TYPE</b>                                |      | Mineral oil with high viscosity index and with high pressure- and antifouling-additives<br>VG 32 (32 cSt @42 °C) |

### 4. MISCELLANEOUS

|     |   |          |  |
|-----|---|----------|--|
| 4.1 | <b>MISC. EQUIPMENT</b><br>Wire guiding                          |          | Automatic, adjustable for 0-90° wire-out direction with the horizontal plane, max allowable fleet angle is 3° Chain wheels : depending on installed wire size<br>Worm screw : 48 mm pitch<br>To be used with ø28 mm wire rope. |
| 4.2 | <b>DRUM GUARD</b>   |          | Installed  |
| 4.3 | <b>CONNECTIONS</b><br>Pressure<br>Tank<br>Drain<br>Load sensing |          | Quick Connects<br>1 ¼" FM Snap-tite 71-3C16<br>1 ¼" M Snap-tite 71-3N16<br>3/4" FM Snap-tite 71-3N12<br>¼" M Snap-tite 71-3C4  |
| 4.4 | <b>SIZE</b><br>LxWxH  | mm       | 2259 x 1384 x 1444   |
| 4.5 | <b>WEIGHT</b><br>Net<br>Gross                                   | kg<br>kg | 2650   |