



**VIKING  
NORSAFE**  
Boats and davits

Enterprise No.: NO940411696  
[www.VIKING-life.com](http://www.VIKING-life.com)

## Munin-980 Workboat



### TECHNICAL SPECIFICATION

**VIKING Norsafe Life-Saving Equipment Norway AS**  
Tybakken 90, N-4818 Faervik  
P.O. Box 115, N-4852 Faervik  
Arendal, Norway

VIKING Project No.: TBA  
Rev. Date: 19.08.2019

VIKING Doc. No.: TSB-0273  
Rev. No: 2

Tel: +47 37 05 85 00  
Fax: +47 37 05 85 01  
E-mail: [VIKING-Norsafe@VIKING-life.com](mailto:VIKING-Norsafe@VIKING-life.com)

# 1. REGULATION AND CERTIFICATION

Applicable rules and regulations DNV 2.21 Craft

## 2. BOAT SPECIFICATION

### 2.1. GENERAL BOAT

Type	Workboat
Model	Munin-980 Workboat
Length overall	9,91 m
Length hull	9,64m
Beam	3,60 m
Height	4,30 m
Capacity, maximum	10 persons
Weight, fully equipped	8.100 kg
Weight, Light	6.500 kg
Maximum load	2.061 kg
Color	Yellow RAL1016
Operation temperature:	-20°C till +40°C
Hull/deck material	Fire retardant Glass reinforced Polyester (GRP)
Buoyancy material	Polyurethane foam
Bollards/towing	Aft Bollard P/S Painter hook in bow
Steering	Hydraulic / Electric
Fender	Polyethylene closed cell foam fender with double skinned heavy duty PVC cover
Deck	Self-bailing
Loose equipment	According to SOLAS or other specified by costumer

The workboat is equipped with standard minimum equipment according to DNV Craft 2.21 regulations. All equipment and outfitting are high quality components. The workboat is designed and outfitted for fulfilling the demands for reliability, low maintenance cost and long-time heavy use.

The workboat has excellent reliability, maneuverability and sea keeping abilities in heavy sea in order to fulfil its prime function - to perform as an effective work platform.

The boat is further designed to operate away from the mother ship for extended period, with sufficient range and long-time operation, with a high gunwale around the boat providing a protected and comfortable working environment for crew and passengers.

The layout and performance of the boat allow it to perform roles as multi-purpose workboat, seismic workboat, towing boom, dive support, inspection- survey- and towing-duties.



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## 2.2 PROPULSION AND PERFORMANCE

<b>Propulsion</b>	Twin diesel engines with Waterjet
<b>Engine size</b>	Approx. 2 x 300
<b>Speed, with 3 persons</b>	Approx. 25 knots
<b>Bollard pull</b>	Approx. 2,6T depending on propulsion system
<b>Instrument gauges</b>	Fuel level, tachometer, (subject to standard engine type), audible alarm for temperature and oil pressure
<b>Engine cooling</b>	Engine fresh water cooling with header tank and heat exchanger as primary circuit. Secondary sea water circuit cooling heat exchanger with supply from waterjet.
<b>Exhaust system</b>	Seawater cooled
<b>Fuel tank</b>	2 x 350 L, Seawater resistant Aluminum
<b>Fuel valves</b>	Shut-off on top of fuel tank and tank drain

*Typical data – subject to variation in engine installation and specified equipment. Please note that boat weight, bollard pull and speed are only for reference and may vary with several factors.*

## 2.3. ELECTRIC SYSTEM AND NAVIGATION

<b>Electric power supply to boat</b>	230 V Shore power	On request
<b>Electric system voltage</b>	12 VDC	
<b>Cables type</b>	Marine type, flame retardant halogen free	
<b>Position light</b>	12 VDC on top of canopy	
<b>Search light</b>	12 VDC handheld	
<b>Navigation lights</b>	According to ISO 16181	
<b>Compass light</b>	12 VDC inside compass	
<b>Bilge pump</b>	2x Electrical	
<b>Alternator</b>	For 12 VDC system	
<b>Batteries</b>	Main and secondary 2x start battery	
Switches	Main and emergency switch for each battery bank.(remote operated )	



## 2.4. DOCUMENTATION

Technical specification boat	According to contract specification
General arrangement drawing	According to contract specification
Seating plan	According to contract specification
Electrical system drawing	According to contract specification
Product certificate	According to contract specification
Lubrication oil chart	VIKING standard
Spare parts list	VIKING standard
Operation & Maintenance man.	VIKING standard
Lifting arrangement drawing	VIKING standard
SOLAS loose equipment list	VIKING standard
Preservation & storage procedure	VIKING standard

## 3. PACKING

**Packing**   **Secured in transport cradle and transport cover**

## 4. OPTIONS

*Note: Some options influence weight and performance, some option combinations may be incompatible. Maximum certified weight must not be exceeded.*

marking means to be supplied by maker,  marking means not supplied by maker.

<b>GENERAL BOAT</b>	
Spare parts for 1 year, 2 years, 5 years or 10 years	<input type="checkbox"/>
Anchor	<input type="checkbox"/>
Anti-skid sand on deck and gunwale	<input type="checkbox"/>
Outside safety rails on cabin, Port & Starboard	<input type="checkbox"/>
CO2 fire extinguisher system in engine room	<input checked="" type="checkbox"/>
Dive ladder	<input type="checkbox"/>
Fire pump	<input type="checkbox"/>
Labelling in dual language	<input type="checkbox"/>
Painted railings and hand rails	<input type="checkbox"/>
Rescue cradle and lifting boom	<input type="checkbox"/>
Shock mitigating seats	<input type="checkbox"/>
Trawler net on fender	<input type="checkbox"/>
White top-coat in engine and jet room	<input type="checkbox"/>
Toilet	<input type="checkbox"/>
Rails on extended aft deck	<input type="checkbox"/>
Additional steering position outside	<input type="checkbox"/>
Canvas cover	<input type="checkbox"/>
Life jackets	<input type="checkbox"/>
<b>PROPULSION AND PERFORMANCE</b>	
Dual oil or fuel filters	<input type="checkbox"/>
Flywheel protection on engine	<input type="checkbox"/>
Sand filter for cooling water	<input checked="" type="checkbox"/>
Oil pressure instruments	<input checked="" type="checkbox"/>
Water temp. instruments	<input checked="" type="checkbox"/>
Rudder pos. instruments	<input type="checkbox"/>
Wireless Deadman switch	<input type="checkbox"/>
Bow thruster	<input type="checkbox"/>
<b>LIFTING ARRANGEMENT</b>	
4-Point lifting system	On request



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## ELECTRIC SYSTEM AND NAVIGATION

Multifunction GPS navigation screen	<input type="checkbox"/>
AIS system	<input type="checkbox"/>
12V outlet in console	<input type="checkbox"/>
Ex plug for ext. power supply	<input type="checkbox"/>
Ex battery box	<input type="checkbox"/>
Bilge water detector in engine and waterjet room	<input checked="" type="checkbox"/>
Crew finder	<input type="checkbox"/>
Echo sounder	<input type="checkbox"/>
Engine room heater	<input type="checkbox"/>
Cabin heater	<input type="checkbox"/>
EIPRB	<input type="checkbox"/>
Fire detector in engine room	<input type="checkbox"/>
FLIR camera	<input type="checkbox"/>
Loud hailer	<input type="checkbox"/>
Intercom system	<input type="checkbox"/>
HID or LED search lights	<input type="checkbox"/>
LED illumination in engine room	<input checked="" type="checkbox"/>
LED illumination of instrument panel	<input checked="" type="checkbox"/>
Loose el. cable for ext. power supply	<input type="checkbox"/>
Electrical system according to NMD requirements	<input type="checkbox"/>
Radar equipment	<input type="checkbox"/>
SART	<input type="checkbox"/>
Strobe lights	<input type="checkbox"/>
VHF equipment	<input type="checkbox"/>
Waterproof battery box	<input type="checkbox"/>
Work lights on top of canopy	<input type="checkbox"/>

## DOCUMENTATION

Factory acceptance test procedure	<input type="checkbox"/>
Factory acceptance test report	<input type="checkbox"/>
Inspection and test plan	<input type="checkbox"/>
Shipping, handling and lifting procedure	<input type="checkbox"/>
Packing & unpacking procedure	<input type="checkbox"/>
Commissioning procedure	<input type="checkbox"/>
TAG list	<input type="checkbox"/>
Fuel system drawing	<input type="checkbox"/>
Bilge system drawing	<input type="checkbox"/>
Steering system drawing	<input type="checkbox"/>
Engine, propulsion, exhaust and cooling system drawing	<input type="checkbox"/>
Noise test report	<input type="checkbox"/>
Weight and COG datasheet	<input type="checkbox"/>
Weighing report/certificate	<input type="checkbox"/>
Other drawings/documentation/procedures	<input type="checkbox"/>

## 5. YARD SUPPLY / RESPONSIBILITY

Transport	Depending on contract
Fuel	EN 590 ( Diesel )