

Project Sheet

Survey and Retrofit Installation of Oil Mist Detector



Instructions

1. Fill out with information about the vessel or powerplant being inspected as well as of service company and person completing report.
2. Complete with data about each engine
3. If there is an Oil Mist Detector installed on the engine, complete this part with information about current installation.
4. In this session, collect necessary data for new installation or retrofit.
For VN115/87plus or VN116/87plus, collect information on item 4.1.
For VN215/87plus, collect information on item 4.2.
5. Check which tools and spare parts are available for OMD maintenance.

Pictures

Take the following pictures and include in this project sheet:

- Engine A side
- Engine B side
- Diagonal view of complete engine, both sides
- Crankcase door area
- Internal picture of suction point area
- Both ends of engine
- Turbo charger end
- Crankcase ventilation piping (exit engine)
- Air control station on engine
- Alarm and monitoring system in ECR

Drawings

Some drawings may be necessary for new installation or retrofit. Check availability of drawings below:

- General layout of OMD system
- OMD Assembly unit
- Engine wall connection
- Sampling funnel
- Wiring diagram
- Air system diagram

1. General Information

Vessel or Plant name:	
Owner:	
Contact name:	
Address:	
Tel:	
Fax:	
Email:	

Service company:	
Person preparing this report:	
Address:	
Tel:	
Fax:	
E-mail:	
Reason for visit / inspection (background):	
Date:	

2. Engine

Number of engines:			
Engine type:	No. Cyl.:		
Serial Number:			
Maker:			
Production year:	Operation time:	hrs	
Rotation (seen from flywheel):	<input type="checkbox"/> <i>Clockwise</i> <input type="checkbox"/> <i>Counterclockwise</i>		
Speed:	rpm		
Available space on crankcase:	Right side:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Left side:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Space available for engine wall connection (EWC) installation:	<input type="checkbox"/> <i>Plenty of Space</i>		
	<input type="checkbox"/> <i>Narrow Space</i>		
Threaded hole available:	<input type="checkbox"/> Yes → Thread size: _____		
	<input type="checkbox"/> No		
Suggested location for EWC installation:	<input type="checkbox"/> <i>Crankcase</i>		
	<input type="checkbox"/> <i>Crankcase Door</i>		
Bracket for OMD to crankcase:	<input type="checkbox"/> Yes		
	<input type="checkbox"/> No	→ <i>Is there enough space to instal it?</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No

3. Current Oil Mist Detector

Maker:	Model / Type:		
OMD location:	<input type="checkbox"/> <i>Engine right side</i> <input type="checkbox"/> <i>Engine left side</i> <input type="checkbox"/> <i>Separate structure</i>		
Overall installation condition:	<input type="checkbox"/> <i>Acceptable, no improvements needed.</i>		
	<input type="checkbox"/> <i>Acceptable, but improvements recommended.</i>		
	<input type="checkbox"/> <i>Not acceptable.</i>		
Sampling funnels:	<input type="checkbox"/> Yes → <input type="checkbox"/> <i>Long cups</i> <input type="checkbox"/> <i>Short cups</i>		
	<input type="checkbox"/> No	→ <i>Is there enough space to instal them?</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No
Main installation deficiencies:	<input type="checkbox"/> <i>Oil mist accumulation points on hoses.</i>		<input type="checkbox"/> <i>No sampling funnels.</i>
	<input type="checkbox"/> <i>Sagging suction pipes.</i>		<input type="checkbox"/> <i>Sagging suction hoses.</i>
	<input type="checkbox"/> <i>Horizontal suction pipes, collecting oil.</i>		<input type="checkbox"/> <i>No drainage in pipes.</i>
	<input type="checkbox"/> <i>Other:</i>		
Power supply:	<input type="checkbox"/> 24VDC <input type="checkbox"/> 110 VAC or 240VAC →		
Alarm & Monitoring system:	<input type="checkbox"/> Yes → <i>Maker :</i> _____		
	<input type="checkbox"/> No	<i>Model :</i>	_____
		<i>Wire Break Resistor :</i>	_____ [kΩ]

4. New Installation / Retrofit

Suggested OMD type:	<input type="checkbox"/> VN 115/87plus <input type="checkbox"/> OMD only (PN 11650)	
	<input type="checkbox"/> Assembly unit (PN 11654) **	
	<input type="checkbox"/> VN 116/87plus <input type="checkbox"/> OMD only (PN 11750)	
	<input type="checkbox"/> Assembly unit (PN 11754) **	
	<input type="checkbox"/> VN 215/87 plus <input type="checkbox"/> OMD only (PN 11850)	
	<input type="checkbox"/> Assembly unit (PN 11854)**	
	Wire break resistor:	ohm
	24VDC Power supply:	<input type="checkbox"/> Available <input type="checkbox"/> Not available
	Remote Indicator II:	<input type="checkbox"/> Yes → RS485 Cable length: _____ m <input type="checkbox"/> No
Suction pipe system:	Siphon blocks: <input type="checkbox"/> Yes, part number : _____ <input type="checkbox"/> No	
	Engine wall connections: <input type="checkbox"/> Yes, part number : _____ <input type="checkbox"/> No	
Air system supply:	<input type="checkbox"/> Available → Max: _____ Min: _____ <input type="checkbox"/> Not available	
Air filter with drain:	<input type="checkbox"/> Available <input type="checkbox"/> Not available	
Air supply line:	<input type="checkbox"/> Available <input type="checkbox"/> Not available	
Pressure manometer (gauge) 0 to 1.5 [bar]:	<input type="checkbox"/> Available <input type="checkbox"/> Not available	
Installation kit:	<input type="checkbox"/> Available → Part number : _____	
	<input type="checkbox"/> Not available → Must be custom made. Collect data in items 4.1 or 4.2.	

Engine availability for retrofit work:	<input type="checkbox"/> 2 days <input type="checkbox"/> 4 days <input type="checkbox"/> more
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4.1. Data for Custom Suction System - VN115/87plus and VN116/87plus



Number of compartments:		
Engine wall connection:	Type:	_____
	Part Number:	_____
Suction funnel:	Type:	_____
		Qty: _____
Manifold suction pipe system:		
Manifold pipe:	Length:	_____
Riser pipe or hose for EWC:	Length:	_____
		Qty: _____
List of all necessary connection fittings:	_____	Qty: _____
	_____	Qty: _____
	_____	Qty: _____
	_____	Qty: _____
Additional Parts:	List in separate sheet	

4.2. Data for Custom Suction System - VN215/87plus

Number of compartments:		
Engine Wall Connection:	Type:	_____
	Part Number:	_____
Suction Funnel:	Type:	_____
	Part Number:	_____
Suction pipe:	Length:	_____
Suction pipe supports:		
List of all necessary connection fittings:	_____	Qty: _____
	_____	Qty: _____
	_____	Qty: _____
	_____	Qty: _____
Additional Parts:	List in separate sheet	

5. Suggested Tools & Spare Parts

Instruction manuals:	<input type="checkbox"/> Available	<input type="checkbox"/> Not available
Service box:	<input type="checkbox"/> Available	<input type="checkbox"/> Not available
Oil mist generator:	<input type="checkbox"/> Available	<input type="checkbox"/> Not available