|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Measurement card for Hafnia Henriette** | | | | Date: 20 september 2024 | |
| **Machine name** | **Measurement condition** | **Work Parameters** | **RHs** | **RPM** | **Remarks** |
| **DECK** | | | | | |
| **DECK** | | | | | |
| **FWD winch hydraulic pumps** | | | | | |
| **FWD winch hydraulic pumps** | | | | | |
| FWD winch hydraulic pump no1 el. motor | During normal operation |  |  | 1785 |  |
| FWD winch hydraulic pump no1 el. motor | During normal operation |  |  |  |  |
| FWD winch hydraulic pump no1 | During normal operation |  |  | 1785 |  |
| FWD winch hydraulic pump no1 | During normal operation |  |  |  |  |
| FWD winch hydraulic pump no2 el. motor | During normal operation |  |  | 1785 |  |
| FWD winch hydraulic pump no2 el. motor | During normal operation |  |  |  |  |
| FWD winch hydraulic pump no2 | During normal operation |  |  | 1785 |  |
| FWD winch hydraulic pump no2 | During normal operation |  |  |  |  |
| **Mooring Winches** | | | | | |
| **Mooring Winches** | | | | | |
| Mooring Winch no1 hydraulic motor | During normal operation |  |  |  |  |
| Mooring Winch no1 hydraulic motor | During normal operation |  |  |  |  |
| Mooring Winch no1 gearbox | During normal operation |  |  |  |  |
| Mooring Winch no1 gearbox | During normal operation |  |  |  |  |
| Windlass Winch no1 | During normal operation |  |  |  |  |
| Windlass Winch no1 | During normal operation |  |  |  |  |
| Mooring Winch no1 | During normal operation |  |  |  |  |
| Mooring Winch no1 | During normal operation |  |  |  |  |
| Mooring Winch no2 hydraulic motor | During normal operation |  |  |  |  |
| Mooring Winch no2 hydraulic motor | During normal operation |  |  |  |  |
| Mooring Winch no2 gearbox | During normal operation |  |  |  |  |
| Mooring Winch no2 gearbox | During normal operation |  |  |  |  |
| Windlass winch no2 | During normal operation |  |  |  |  |
| Windlass winch no2 | During normal operation |  |  |  |  |
| Mooring winch no2 | During normal operation |  |  |  |  |
| Mooring winch no2 | During normal operation |  |  |  |  |
| **Ballast pumps** | | | | | |
| **Ballast pumps** | | | | | |
| Ballast pump PS el. motor | During normal operation |  |  | 1782 |  |
| Ballast pump PS el. motor | During normal operation |  |  |  |  |
| Ballast pump PS | During normal operation |  |  | 1780 |  |
| Ballast pump PS | During normal operation |  |  |  |  |
| Ballast pump SB el. motor | During normal operation |  |  | 1782 |  |
| Ballast pump SB el. motor | During normal operation |  |  |  |  |
| Ballast pump SB | During normal operation |  |  | 1780 |  |
| Ballast pump SB | During normal operation |  |  |  |  |
| **Cargo pumps** | | | | | |
| **Cargo pumps** | | | | | |
| Slop pump PS el. motor | During normal operation |  |  | 1784 |  |
| Slop pump PS el. motor | During normal operation |  |  |  |  |
| Slop pump PS | During normal operation |  |  | 1784 |  |
| Slop pump PS | During normal operation |  |  |  |  |
| Slop pump SB el. motor | During normal operation |  |  | 1784 |  |
| Slop pump SB el. motor | During normal operation |  |  |  |  |
| Slop pump SB | During normal operation |  |  | 1784 |  |
| Slop pump SB | During normal operation |  |  |  |  |
| Cargo pump no1 PS el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  | 1784 |  |
| Cargo pump no1 PS el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |
| Cargo pump no1 PS | Normal operation. Provide information about load and suction/discharge pressure |  |  | 1784 |  |
| Cargo pump no1 PS | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |
| Cargo pump no1 SB el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  | 1784 |  |
| Cargo pump no1 SB el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |
| Cargo pump no1 SB | Normal operation. Provide information about load and suction/discharge pressure |  |  | 1784 |  |
| Cargo pump no1 SB | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |
| Cargo pump no2 PS el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  | 1784 |  |
| Cargo pump no2 PS el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |
| Cargo pump no2 PS | Normal operation. Provide information about load and suction/discharge pressure |  |  | 1784 |  |
| Cargo pump no2 PS | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |
| Cargo pump no2 SB el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  | 1784 |  |
| Cargo pump no2 SB el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |
| Cargo pump no2 SB | Normal operation. Provide information about load and suction/discharge pressure |  |  | 1784 |  |
| Cargo pump no2 SB | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |
| Cargo pump no3 PS el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  | 1784 |  |
| Cargo pump no3 PS el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |
| Cargo pump no3 PS | Normal operation. Provide information about load and suction/discharge pressure |  |  | 1784 |  |
| Cargo pump no3 PS | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |
| Cargo pump no3 SB el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  | 1784 |  |
| Cargo pump no3 SB el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |
| Cargo pump no3 SB | Normal operation. Provide information about load and suction/discharge pressure |  |  | 1784 |  |
| Cargo pump no3 SB | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |
| Cargo pump no4 PS el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  | 1784 |  |
| Cargo pump no4 PS el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |
| Cargo pump no4 PS | Normal operation. Provide information about load and suction/discharge pressure |  |  | 1784 |  |
| Cargo pump no4 PS | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |
| Cargo pump no4 SB el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  | 1784 |  |
| Cargo pump no4 SB el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |
| Cargo pump no4 SB | Normal operation. Provide information about load and suction/discharge pressure |  |  | 1784 |  |
| Cargo pump no4 SB | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |
| Cargo pump no5 PS el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  | 1784 |  |
| Cargo pump no5 PS el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |
| Cargo pump no5 PS | Normal operation. Provide information about load and suction/discharge pressure |  |  | 1784 |  |
| Cargo pump no5 PS | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |
| Cargo pump no5 SB el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  | 1784 |  |
| Cargo pump no5 SB el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |
| Cargo pump no5 SB | Normal operation. Provide information about load and suction/discharge pressure |  |  | 1784 |  |
| Cargo pump no5 SB | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |
| **Engine Room vent fans** | | | | | |
| **Engine Room vent fans** | | | | | |
| Engine room fan no1 el. motor | During normal operation |  |  | 1775 |  |
| Engine room fan no1 el. motor | During normal operation |  |  |  |  |
| Engine room fan no2 el. motor | During normal operation |  |  | 1775 |  |
| Engine room fan no2 el. motor | During normal operation |  |  |  |  |
| Engine room fan no3 el. motor | During normal operation |  |  | 1775 |  |
| Engine room fan no3 el. motor | During normal operation |  |  |  |  |
| Engine room fan no4 el. motor | During normal operation |  |  | 1775 |  |
| Engine room fan no4 el. motor | During normal operation |  |  |  |  |
| **ENGINE ROOM** | | | | | |
| **ENGINE ROOM** | | | | | |
| **ME** | | | | | |
| **ME** | | | | | |
| Main Engine | Expected minimum load: 80% |  |  | 99 |  |
| Main Engine | Expected minimum load: 80% |  |  |  |  |
| **Middle bearing** | | | | | |
| **Middle bearing** | | | | | |
| Middle bearing | Expected minimum load/speed on ME: 80% |  |  |  |  |
| Middle bearing | Expected minimum load/speed on ME: 80% |  |  |  |  |
| **Emergency generator** | | | | | |
| **Emergency generator** | | | | | |
| Emergency generator engine | Idle (no load) |  |  |  |  |
| Emergency generator engine | Idle (no load) |  |  |  |  |
| Emergency generator | Idle (no load) |  |  |  |  |
| Emergency generator | Idle (no load) |  |  |  |  |
| **ME blowers** | | | | | |
| **ME blowers** | | | | | |
| ME blower no1 el. motor | During normal operation |  |  | 3540 |  |
| ME blower no1 el. motor | During normal operation |  |  |  |  |
| ME blower no2 el. motor | During normal operation |  |  | 3540 |  |
| ME blower no2 el. motor | During normal operation |  |  |  |  |
| **ME LO pumps** | | | | | |
| **ME LO pumps** | | | | | |
| ME LO pump no1 el. motor | During normal operation |  |  | 1780 |  |
| ME LO pump no1 el. motor | During normal operation |  |  |  |  |
| ME LO pump no1 | During normal operation |  |  | 1780 |  |
| ME LO pump no1 | During normal operation |  |  |  |  |
| ME LO pump no2 el. motor | During normal operation |  |  | 1780 |  |
| ME LO pump no2 el. motor | During normal operation |  |  |  |  |
| ME LO pump no2 | During normal operation |  |  | 1780 |  |
| ME LO pump no2 | During normal operation |  |  |  |  |
| **ME Hydraulic oil pump** | | | | | |
| **ME Hydraulic oil pump** | | | | | |
| Hydraulic oil pump for ME no1 el. motor | During normal operation |  |  | 1775 |  |
| Hydraulic oil pump for ME no1 el. motor | During normal operation |  |  |  |  |
| Hydraulic oil pump for ME no2 el. motor | During normal operation |  |  | 1775 |  |
| Hydraulic oil pump for ME no2 el. motor | During normal operation |  |  |  |  |
| **AE** | | | | | |
| **AE** | | | | | |
| Auxiliary Engine no1 | Expected minimum load: 45% |  |  | 900 |  |
| Auxiliary Engine no1 | Expected minimum load: 45% |  |  |  |  |
| Auxiliary Engine no1 alternator | Expected minimum load/speed on DG: 45% |  |  | 900 |  |
| Auxiliary Engine no1 alternator | Expected minimum load/speed on DG: 45% |  |  |  |  |
| Auxiliary Engine no2 | Expected minimum load: 45% |  |  | 900 |  |
| Auxiliary Engine no2 | Expected minimum load: 45% |  |  |  |  |
| Auxiliary Engine no2 alternator | Expected minimum load/speed on DG: 45% |  |  | 900 |  |
| Auxiliary Engine no2 alternator | Expected minimum load/speed on DG: 45% |  |  |  |  |
| Auxiliary Engine no3 | Expected minimum load: 45% |  |  | 900 |  |
| Auxiliary Engine no3 | Expected minimum load: 45% |  |  |  |  |
| Auxiliary Engine no3 alternator | Expected minimum load/speed on DG: 45% |  |  | 900 |  |
| Auxiliary Engine no3 alternator | Expected minimum load/speed on DG: 45% |  |  |  |  |
| **Auxiliary Engine pre-lub oil pumps** | | | | | |
| **Auxiliary Engine pre-lub oil pumps** | | | | | |
| AE pre-lub oil pump no1 el. motor | During normal operation |  |  | 3535 |  |
| AE pre-lub oil pump no1 el. motor | During normal operation |  |  |  |  |
| AE pre-lub oil pump no1 | During normal operation |  |  |  |  |
| AE pre-lub oil pump no1 | During normal operation |  |  |  |  |
| AE pre-lub oil pump no2 el. motor | During normal operation |  |  | 3535 |  |
| AE pre-lub oil pump no2 el. motor | During normal operation |  |  |  |  |
| AE pre-lub oil pump no2 | During normal operation |  |  |  |  |
| AE pre-lub oil pump no2 | During normal operation |  |  |  |  |
| AE pre-lub oil pump no3 el. motor | During normal operation |  |  | 3535 |  |
| AE pre-lub oil pump no3 el. motor | During normal operation |  |  |  |  |
| AE pre-lub oil pump no3 | During normal operation |  |  |  |  |
| AE pre-lub oil pump no3 | During normal operation |  |  |  |  |
| **FO feed pumps** | | | | | |
| **FO feed pumps** | | | | | |
| FO feed pump no1 el. motor | During normal operation |  |  | 3312 |  |
| FO feed pump no1 el. motor | During normal operation |  |  |  |  |
| FO feed pump no1 | During normal operation |  |  | 3312 |  |
| FO feed pump no1 | During normal operation |  |  |  |  |
| FO feed pump no2 el. motor | During normal operation |  |  | 3312 |  |
| FO feed pump no2 el. motor | During normal operation |  |  |  |  |
| FO feed pump no2 | During normal operation |  |  | 3312 |  |
| FO feed pump no2 | During normal operation |  |  |  |  |
| **FO booster pumps** | | | | | |
| **FO booster pumps** | | | | | |
| FO booster pump no1 el. motor | During normal operation |  |  | 3444 |  |
| FO booster pump no1 el. motor | During normal operation |  |  |  |  |
| FO booster pump no1 | During normal operation |  |  | 3444 |  |
| FO booster pump no1 | During normal operation |  |  |  |  |
| FO booster pump no2 el. motor | During normal operation |  |  | 3444 |  |
| FO booster pump no2 el. motor | During normal operation |  |  |  |  |
| FO booster pump no2 | During normal operation |  |  | 3444 |  |
| FO booster pump no2 | During normal operation |  |  |  |  |
| **Transfer pumps** | | | | | |
| **Transfer pumps** | | | | | |
| DO transfer pump el. motor | During normal operation |  |  | 1178 |  |
| DO transfer pump el. motor | During normal operation |  |  |  |  |
| DO transfer pump | During normal operation |  |  | 1150 |  |
| DO transfer pump | During normal operation |  |  |  |  |
| HFO transfer pump el. motor | During normal operation |  |  | 1178 |  |
| HFO transfer pump el. motor | During normal operation |  |  |  |  |
| HFO transfer pump | During normal operation |  |  | 1150 |  |
| HFO transfer pump | During normal operation |  |  |  |  |
| LO transfer pump el. motor | During normal operation |  |  | 1140 |  |
| LO transfer pump el. motor | During normal operation |  |  |  |  |
| LO transfer pump | During normal operation |  |  | 1150 |  |
| LO transfer pump | During normal operation |  |  |  |  |
| **Purifiers** | | | | | |
| **Purifiers** | | | | | |
| AE LO purifier el. motor | Under full load, 30min after starting and after flushing separator |  |  | 3510 | 19/09/2024 |
| AE LO purifier el. motor | Under full load, 30min after starting and after flushing separator |  |  |  |  |
| AE LO purifier | Under full load, 30min after starting and after flushing separator |  |  | 12000 | 19/09/2024 |
| AE LO purifier | Under full load, 30min after starting and after flushing separator |  |  |  |  |
| ME LO purifier no1 el. motor | Under full load, 30min after starting and after flushing separator |  |  | 3510 | 20/09/2024 |
| ME LO purifier no1 el. motor | Under full load, 30min after starting and after flushing separator |  |  |  |  |
| ME LO purifier no1 | Under full load, 30min after starting and after flushing separator |  |  | 12000 | 20/09/2024 |
| ME LO purifier no1 | Under full load, 30min after starting and after flushing separator |  |  |  |  |
| ME LO purifier no2 el. motor | Under full load, 30min after starting and after flushing separator |  |  | 3510 | 20/09/2024 |
| ME LO purifier no2 el. motor | Under full load, 30min after starting and after flushing separator |  |  |  |  |
| ME LO purifier no2 | Under full load, 30min after starting and after flushing separator |  |  | 12000 | 20/09/2024 |
| ME LO purifier no2 | Under full load, 30min after starting and after flushing separator |  |  |  |  |
| DO purifier el. motor | Under full load, 30min after starting and after flushing separator |  |  | 3510 |  |
| DO purifier el. motor | Under full load, 30min after starting and after flushing separator |  |  |  |  |
| DO purifier | Under full load, 30min after starting and after flushing separator |  |  | 12000 |  |
| DO purifier | Under full load, 30min after starting and after flushing separator |  |  |  |  |
| HFO purifier no1 el. motor | Under full load, 30min after starting and after flushing separator |  |  | 3510 | 20/09/2024 |
| HFO purifier no1 el. motor | Under full load, 30min after starting and after flushing separator |  |  |  |  |
| HFO purifier no1 | Under full load, 30min after starting and after flushing separator |  |  | 12000 | 20/09/2024 |
| HFO purifier no1 | Under full load, 30min after starting and after flushing separator |  |  |  |  |
| HFO purifier no2 el. motor | Under full load, 30min after starting and after flushing separator |  |  | 3510 | 20/09/2024 |
| HFO purifier no2 el. motor | Under full load, 30min after starting and after flushing separator |  |  |  |  |
| HFO purifier no2 | Under full load, 30min after starting and after flushing separator |  |  | 12000 | 20/09/2024 |
| HFO purifier no2 | Under full load, 30min after starting and after flushing separator |  |  |  |  |
| **Purifiers supply pumps** | | | | | |
| **Purifiers supply pumps** | | | | | |
| AE LO purifier supply pump el. motor | During normal operation |  |  | 1640 |  |
| AE LO purifier supply pump el. motor | During normal operation |  |  |  |  |
| AE LO purifier supply pump | During normal operation |  |  | 1640 |  |
| AE LO purifier supply pump | During normal operation |  |  |  |  |
| ME LO purifier supply pump no1 el. motor | During normal operation |  |  | 1720 |  |
| ME LO purifier supply pump no1 el. motor | During normal operation |  |  |  |  |
| ME LO purifier supply pump no1 | During normal operation |  |  | 1720 |  |
| ME LO purifier supply pump no1 | During normal operation |  |  |  |  |
| ME LO purifier supply pump no2 el. motor | During normal operation |  |  | 1720 |  |
| ME LO purifier supply pump no2 el. motor | During normal operation |  |  |  |  |
| ME LO purifier supply pump no2 | During normal operation |  |  | 1720 |  |
| ME LO purifier supply pump no2 | During normal operation |  |  |  |  |
| DO purifier supply pump el. motor | During normal operation |  |  | 1720 |  |
| DO purifier supply pump el. motor | During normal operation |  |  |  |  |
| DO purifier supply pump | During normal operation |  |  | 1720 |  |
| DO purifier supply pump | During normal operation |  |  |  |  |
| HFO purifier supply pump no1 el. motor | During normal operation |  |  | 1720 | 19/09/2024 |
| HFO purifier supply pump no1 el. motor | During normal operation |  |  |  |  |
| HFO purifier supply pump no1 | During normal operation |  |  | 1720 | 19/09/2024 |
| HFO purifier supply pump no1 | During normal operation |  |  |  |  |
| HFO purifier supply pump no2 el. motor | During normal operation |  |  | 1720 |  |
| HFO purifier supply pump no2 el. motor | During normal operation |  |  |  |  |
| HFO purifier supply pump no2 | During normal operation |  |  | 1720 |  |
| HFO purifier supply pump no2 | During normal operation |  |  |  |  |
| **Auxiliary boiler FO supply pumps** | | | | | |
| **Auxiliary boiler FO supply pumps** | | | | | |
| Aux boiler FO supply pump no1 el. motor | During normal operation |  |  | 3465 |  |
| Aux boiler FO supply pump no1 el. motor | During normal operation |  |  |  |  |
| Aux boiler FO supply pump no1 | During normal operation |  |  | 3465 |  |
| Aux boiler FO supply pump no1 | During normal operation |  |  |  |  |
| Aux boiler FO supply pump no2 el. motor | During normal operation |  |  | 3465 |  |
| Aux boiler FO supply pump no2 el. motor | During normal operation |  |  |  |  |
| Aux boiler FO supply pump no2 | During normal operation |  |  | 3465 |  |
| Aux boiler FO supply pump no2 | During normal operation |  |  |  |  |
| **Auxiliary boiler MGO supply pumps** | | | | | |
| **Auxiliary boiler MGO supply pumps** | | | | | |
| Aux boiler MGO supply pump no1 el. motor | During normal operation |  |  | 3480 |  |
| Aux boiler MGO supply pump no1 el. motor | During normal operation |  |  |  |  |
| Aux boiler MGO supply pump no1 | During normal operation |  |  | 3480 |  |
| Aux boiler MGO supply pump no1 | During normal operation |  |  |  |  |
| Aux boiler MGO supply pump no2 el. motor | During normal operation |  |  | 3480 |  |
| Aux boiler MGO supply pump no2 el. motor | During normal operation |  |  |  |  |
| Aux boiler MGO supply pump no2 | During normal operation |  |  | 3480 |  |
| Aux boiler MGO supply pump no2 | During normal operation |  |  |  |  |
| **Auxiliary boiler feed water pumps** | | | | | |
| **Auxiliary boiler feed water pumps** | | | | | |
| Aux boiler feed water pump no1 el. motor | During normal operation |  |  | 3528 |  |
| Aux boiler feed water pump no1 el. motor | During normal operation |  |  |  |  |
| Aux boiler feed water pump no1 | During normal operation |  |  | 3528 |  |
| Aux boiler feed water pump no1 | During normal operation |  |  |  |  |
| Aux boiler feed water pump no2 el. motor | During normal operation |  |  | 3528 |  |
| Aux boiler feed water pump no2 el. motor | During normal operation |  |  |  |  |
| Aux boiler feed water pump no2 | During normal operation |  |  | 3528 |  |
| Aux boiler feed water pump no2 | During normal operation |  |  |  |  |
| **Auxiliary boiler FO ignition pump** | | | | | |
| **Auxiliary boiler FO ignition pump** | | | | | |
| Auxiliary boiler FO ignition pump el. motor | During normal operation |  |  |  |  |
| Auxiliary boiler FO ignition pump el. motor | During normal operation |  |  |  |  |
| Auxiliary boiler FO ignition pump | During normal operation |  |  |  |  |
| Auxiliary boiler FO ignition pump | During normal operation |  |  |  |  |
| **Composite boiler FO pumps** | | | | | |
| **Composite boiler FO pumps** | | | | | |
| Composite boiler FO pump no1 el. motor | During normal operation |  |  | 3285 |  |
| Composite boiler FO pump no1 el. motor | During normal operation |  |  |  |  |
| Composite boiler FO pump no1 | During normal operation |  |  | 3285 |  |
| Composite boiler FO pump no1 | During normal operation |  |  |  |  |
| Composite boiler FO pump no2 el. motor | During normal operation |  |  | 3285 |  |
| Composite boiler FO pump no2 el. motor | During normal operation |  |  |  |  |
| Composite boiler FO pump no2 | During normal operation |  |  | 3285 |  |
| Composite boiler FO pump no2 | During normal operation |  |  |  |  |
| **Composite boiler MGO pumps** | | | | | |
| **Composite boiler MGO pumps** | | | | | |
| Composite boiler MGO pump no1 el. motor | During normal operation |  |  | 3465 |  |
| Composite boiler MGO pump no1 el. motor | During normal operation |  |  |  |  |
| Composite boiler MGO pump no1 | During normal operation |  |  | 3465 |  |
| Composite boiler MGO pump no1 | During normal operation |  |  |  |  |
| Composite boiler MGO pump no2 el. motor | During normal operation |  |  | 3465 |  |
| Composite boiler MGO pump no2 el. motor | During normal operation |  |  |  |  |
| Composite boiler MGO pump no2 | During normal operation |  |  | 3465 |  |
| Composite boiler MGO pump no2 | During normal operation |  |  |  |  |
| **Composite boiler feed water pumps** | | | | | |
| **Composite boiler feed water pumps** | | | | | |
| Composite boiler feed water pump no1 el. motor | During normal operation |  |  | 3530 |  |
| Composite boiler feed water pump no1 el. motor | During normal operation |  |  |  |  |
| Composite boiler feed water pump no1 | During normal operation |  |  | 3530 |  |
| Composite boiler feed water pump no1 | During normal operation |  |  |  |  |
| Composite boiler feed water pump no2 el. motor | During normal operation |  |  | 3530 |  |
| Composite boiler feed water pump no2 el. motor | During normal operation |  |  |  |  |
| Composite boiler feed water pump no2 | During normal operation |  |  | 3530 |  |
| Composite boiler feed water pump no2 | During normal operation |  |  |  |  |
| **Stern tube LO pump** | | | | | |
| **Stern tube LO pump** | | | | | |
| Stern tube LO pump no1 el. motor | During normal operation |  |  | 1110 |  |
| Stern tube LO pump no1 el. motor | During normal operation |  |  |  |  |
| Stern tube LO pump no1 | During normal operation |  |  | 1200 |  |
| Stern tube LO pump no1 | During normal operation |  |  |  |  |
| Stern tube LO pump no2 el. motor | During normal operation |  |  | 1110 |  |
| Stern tube LO pump no2 el. motor | During normal operation |  |  |  |  |
| Stern tube LO pump no2 | During normal operation |  |  | 1200 |  |
| Stern tube LO pump no2 | During normal operation |  |  |  |  |
| **HT CFW pumps** | | | | | |
| **HT CFW pumps** | | | | | |
| HT cooling FW pump no1 el. motor | During normal operation |  | 31280 | 1765 | 19/09/2024 |
| HT cooling FW pump no1 el. motor | During normal operation |  |  |  |  |
| HT cooling FW pump no1 | During normal operation |  | 31280 | 1750 | 19/09/2024 |
| HT cooling FW pump no1 | During normal operation |  |  |  |  |
| HT cooling FW pump no2 el. motor | During normal operation |  | 39208 | 1765 | 19/09/2024 |
| HT cooling FW pump no2 el. motor | During normal operation |  |  |  |  |
| HT cooling FW pump no2 | During normal operation |  | 39208 | 1750 | 19/09/2024 |
| HT cooling FW pump no2 | During normal operation |  |  |  |  |
| **LT CFW pumps** | | | | | |
| **LT CFW pumps** | | | | | |
| LT cooling FW pump no1 el. motor | During normal operation |  | 30049 | 1770 | 19/09/2024 |
| LT cooling FW pump no1 el. motor | During normal operation |  |  |  |  |
| LT cooling FW pump no1 | During normal operation |  | 30049 | 1750 | 19/09/2024 |
| LT cooling FW pump no1 | During normal operation |  |  |  |  |
| LT cooling FW pump no2 el. motor | During normal operation |  | 49454 | 1770 | 19/09/2024 |
| LT cooling FW pump no2 el. motor | During normal operation |  |  |  |  |
| LT cooling FW pump no2 | During normal operation |  | 49454 | 1750 | 19/09/2024 |
| LT cooling FW pump no2 | During normal operation |  |  |  |  |
| LT cooling FW pump no3 el. motor | During normal operation |  | 51089 | 1770 | 19/09/2024 |
| LT cooling FW pump no3 el. motor | During normal operation |  |  |  |  |
| LT cooling FW pump no3 | During normal operation |  | 51089 | 1750 | 19/09/2024 |
| LT cooling FW pump no3 | During normal operation |  |  |  |  |
| **LT FW booster pumps** | | | | | |
| **LT FW booster pumps** | | | | | |
| LT FW booster pump no1 el. motor | During normal operation |  |  | 3565 | 19/09/2024 |
| LT FW booster pump no1 el. motor | During normal operation |  |  |  |  |
| LT FW booster pump no1 | During normal operation |  |  | 3500 | 19/09/2024 |
| LT FW booster pump no1 | During normal operation |  |  |  |  |
| LT FW booster pump no2 el. motor | During normal operation |  |  | 3565 |  |
| LT FW booster pump no2 el. motor | During normal operation |  |  |  |  |
| LT FW booster pump no2 | During normal operation |  |  | 3500 |  |
| LT FW booster pump no2 | During normal operation |  |  |  |  |
| **Main CSW pumps** | | | | | |
| **Main CSW pumps** | | | | | |
| Main Cooling SW pump no1 el. motor | During normal operation |  |  | 1780 |  |
| Main Cooling SW pump no1 el. motor | During normal operation |  |  |  |  |
| Main Cooling SW pump no1 | During normal operation |  |  | 1750 |  |
| Main Cooling SW pump no1 | During normal operation |  |  |  |  |
| Main Cooling SW pump no2 el. motor | During normal operation |  |  | 1780 |  |
| Main Cooling SW pump no2 el. motor | During normal operation |  |  |  |  |
| Main Cooling SW pump no2 | During normal operation |  |  | 1750 |  |
| Main Cooling SW pump no2 | During normal operation |  |  |  |  |
| **IG CSW pump** | | | | | |
| **IG CSW pump** | | | | | |
| Inert Gas Cooling Sea Water pump el. motor | During normal operation |  |  | 3565 |  |
| Inert Gas Cooling Sea Water pump el. motor | During normal operation |  |  |  |  |
| Inert Gas Cooling Sea Water pump | During normal operation |  |  | 3565 |  |
| Inert Gas Cooling Sea Water pump | During normal operation |  |  |  |  |
| **Scrubber CSW pump** | | | | | |
| **Scrubber CSW pump** | | | | | |
| Scrubber CSW pump el. motor | During normal operation |  |  |  |  |
| Scrubber CSW pump el. motor | During normal operation |  |  |  |  |
| Scrubber CSW pump | During normal operation |  |  |  |  |
| Scrubber CSW pump | During normal operation |  |  |  |  |
| **Hot Water circulation pump** | | | | | |
| **Hot Water circulation pump** | | | | | |
| Hot Water circulation pump el. motor | During normal operation |  |  | 3505 |  |
| Hot Water circulation pump el. motor | During normal operation |  |  |  |  |
| Hot Water circulation pump | During normal operation |  |  | 3500 |  |
| Hot Water circulation pump | During normal operation |  |  |  |  |
| **Ballast Water Treatment System** | | | | | |
| **Ballast Water Treatment System** | | | | | |
| Ballast Water Treatment System pump el. motor | During normal operation |  |  | 3480 |  |
| Ballast Water Treatment System pump el. motor | During normal operation |  |  |  |  |
| Ballast Water Treatment System pump | During normal operation |  |  | 3480 |  |
| Ballast Water Treatment System pump | During normal operation |  |  |  |  |
| **FWG ejector** | | | | | |
| **FWG ejector** | | | | | |
| FWG ejector pump el. motor | During normal operation |  |  | 3500 |  |
| FWG ejector pump el. motor | During normal operation |  |  |  |  |
| FWG ejector pump | During normal operation |  |  | 3500 |  |
| FWG ejector pump | During normal operation |  |  |  |  |
| **FW hydro pump** | | | | | |
| **FW hydro pump** | | | | | |
| FW hydrophore pump no1 el. motor | During normal operation |  |  | 3565 |  |
| FW hydrophore pump no1 el. motor | During normal operation |  |  |  |  |
| FW hydrophore pump no1 | During normal operation |  |  | 3500 |  |
| FW hydrophore pump no1 | During normal operation |  |  |  |  |
| FW hydrophore pump no2 el. motor | During normal operation |  |  | 3565 |  |
| FW hydrophore pump no2 el. motor | During normal operation |  |  |  |  |
| FW hydrophore pump no2 | During normal operation |  |  | 3500 |  |
| FW hydrophore pump no2 | During normal operation |  |  |  |  |
| **Main air compressor** | | | | | |
| **Main air compressor** | | | | | |
| Main air compressor no1 el. motor | During normal operation |  |  | 1770 |  |
| Main air compressor no1 el. motor | During normal operation |  |  |  |  |
| Main air compressor no1 | During normal operation |  |  | 1780 |  |
| Main air compressor no1 | During normal operation |  |  |  |  |
| Main air compressor no2 el. motor | During normal operation |  |  | 1770 |  |
| Main air compressor no2 el. motor | During normal operation |  |  |  |  |
| Main air compressor no2 | During normal operation |  |  | 1780 |  |
| Main air compressor no2 | During normal operation |  |  |  |  |
| **Provision compressors** | | | | | |
| **Provision compressors** | | | | | |
| Provision ref compressor no1 | During normal operation |  |  | 1750 |  |
| Provision ref compressor no1 | During normal operation |  |  |  |  |
| Provision ref compressor no2 | During normal operation |  |  | 1750 |  |
| Provision ref compressor no2 | During normal operation |  |  |  |  |
| **AC compressors** | | | | | |
| **AC compressors** | | | | | |
| Air condition compressor no1 el. motor | During normal operation |  | 27706 | 3560 | 19/09/2024 |
| Air condition compressor no1 el. motor | During normal operation |  |  |  |  |
| Air condition compressor no1 male | During normal operation |  | 27706 | 4000 | 19/09/2024 |
| Air condition compressor no1 male | During normal operation |  |  |  |  |
| Air condition compressor no1 female | During normal operation |  | 27706 |  | 19/09/2024 |
| Air condition compressor no1 female | During normal operation |  |  |  |  |
| Air condition compressor no2 el. motor | During normal operation |  | 40101 | 3560 | 19/09/2024 |
| Air condition compressor no2 el. motor | During normal operation |  |  |  |  |
| Air condition compressor no2 male | During normal operation |  | 40101 | 4000 | 19/09/2024 |
| Air condition compressor no2 male | During normal operation |  |  |  |  |
| Air condition compressor no2 female | During normal operation |  | 40101 |  | 19/09/2024 |
| Air condition compressor no2 female | During normal operation |  |  |  |  |
| **Emergency compressor** | | | | | |
| **Emergency compressor** | | | | | |
| Emergency compressor el. motor | During normal operation |  |  | 1762 |  |
| Emergency compressor el. motor | During normal operation |  |  |  |  |
| Emergency compressor | During normal operation |  |  | 1780 |  |
| Emergency compressor | During normal operation |  |  |  |  |
| **Deck seal water pump** | | | | | |
| **Deck seal water pump** | | | | | |
| Deck water seal SW pump no1 el. motor | During normal operation |  |  | 3500 |  |
| Deck water seal SW pump no1 el. motor | During normal operation |  |  |  |  |
| Deck water seal SW pump no1 | During normal operation |  |  | 3500 |  |
| Deck water seal SW pump no1 | During normal operation |  |  |  |  |
| Deck water seal SW pump no2 el. motor | During normal operation |  |  | 3500 |  |
| Deck water seal SW pump no2 el. motor | During normal operation |  |  |  |  |
| Deck water seal SW pump no2 | During normal operation |  |  | 3500 |  |
| Deck water seal SW pump no2 | During normal operation |  |  |  |  |
| **Steering gear** | | | | | |
| **Steering gear** | | | | | |
| Steering gear pump no1 el. motor | Idle (no load) |  | 32790 | 1764 | 19/09/2024 |
| Steering gear pump no1 el. motor | Idle (no load) |  |  |  |  |
| Steering gear pump no1 | Idle (no load) |  | 32790 | 1764 | 19/09/2024 |
| Steering gear pump no1 | Idle (no load) |  |  |  |  |
| Steering gear pump no2 el. motor | Idle (no load) |  | 37497 | 1764 | 19/09/2024 |
| Steering gear pump no2 el. motor | Idle (no load) |  |  |  |  |
| Steering gear pump no2 | Idle (no load) |  | 37497 | 1764 | 19/09/2024 |
| Steering gear pump no2 | Idle (no load) |  |  |  |  |
| **AFT winch hydraulic pumps** | | | | | |
| **AFT winch hydraulic pumps** | | | | | |
| AFT winch hydraulic pump no1 el. motor | During normal operation |  |  | 1770 |  |
| AFT winch hydraulic pump no1 el. motor | During normal operation |  |  |  |  |
| AFT winch hydraulic pump no1 | During normal operation |  |  | 1770 |  |
| AFT winch hydraulic pump no1 | During normal operation |  |  |  |  |
| AFT winch hydraulic pump no2 el. motor | During normal operation |  |  | 1770 |  |
| AFT winch hydraulic pump no2 el. motor | During normal operation |  |  |  |  |
| AFT winch hydraulic pump no2 | During normal operation |  |  | 1770 |  |
| AFT winch hydraulic pump no2 | During normal operation |  |  |  |  |
| **Bilge pump** | | | | | |
| **Bilge pump** | | | | | |
| Bilge pump el. motor | During normal operation |  |  | 1130 |  |
| Bilge pump el. motor | During normal operation |  |  |  |  |
| Bilge pump | During normal operation |  |  | 1130 |  |
| Bilge pump | During normal operation |  |  |  |  |
| **Sludge pump** | | | | | |
| **Sludge pump** | | | | | |
| Sludge pump el. motor | During normal operation |  |  | 1140 |  |
| Sludge pump el. motor | During normal operation |  |  |  |  |
| Sludge pump | During normal operation |  |  | 1140 |  |
| Sludge pump | During normal operation |  |  |  |  |
| **Fire GS pumps** | | | | | |
| **Fire GS pumps** | | | | | |
| Fire, bilge & GS pump no1 el. motor | During normal operation |  |  | 1787 |  |
| Fire, bilge & GS pump no1 el. motor | During normal operation |  |  |  |  |
| Fire, bilge & GS pump no1 | During normal operation |  |  | 1750 |  |
| Fire, bilge & GS pump no1 | During normal operation |  |  |  |  |
| Fire, bilge & GS pump no2 el. motor | During normal operation |  |  | 1787 |  |
| Fire, bilge & GS pump no2 el. motor | During normal operation |  |  |  |  |
| Fire, bilge & GS pump no2 | During normal operation |  |  | 1750 |  |
| Fire, bilge & GS pump no2 | During normal operation |  |  |  |  |
| **Emergency fire pump** | | | | | |
| **Emergency fire pump** | | | | | |
| Emergency fire pump el. motor | During normal operation |  |  | 1780 |  |
| Emergency fire pump el. motor | During normal operation |  |  |  |  |
| Emergency fire pump | During normal operation |  |  | 1780 |  |
| Emergency fire pump | During normal operation |  |  |  |  |
| **IG blowers** | | | | | |
| **IG blowers** | | | | | |
| Inert gas blower no1 el. motor | During normal operation |  |  | 3565 |  |
| Inert gas blower no1 el. motor | During normal operation |  |  |  |  |
| Inert gas blower no2 el. motor | During normal operation |  |  | 3565 |  |
| Inert gas blower no2 el. motor | During normal operation |  |  |  |  |
| **Aux Boiler FD fan** | | | | | |
| **Aux Boiler FD fan** | | | | | |
| Auxiliary boiler Forced Draft fan el. motor | During normal operation |  |  | 3552 |  |
| Auxiliary boiler Forced Draft fan el. motor | During normal operation |  |  |  |  |
| **Cylinder oil transfer pump** | | | | | |
| **Cylinder oil transfer pump** | | | | | |
| Cylinder oil transfer pump el. motor | During normal operation |  |  |  |  |
| Cylinder oil transfer pump el. motor | During normal operation |  |  |  |  |
| Cylinder oil transfer pump | During normal operation |  |  |  |  |
| Cylinder oil transfer pump | During normal operation |  |  |  |  |
| **Oily water separator feed pump** | | | | | |
| **Oily water separator feed pump** | | | | | |
| Oily water separator feed pump el. motor | During normal operation |  |  |  |  |
| Oily water separator feed pump el. motor | During normal operation |  |  |  |  |
| Oily water separator feed pump | During normal operation |  |  |  |  |
| Oily water separator feed pump | During normal operation |  |  |  |  |