|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Measurement card for HAFNIA Myna** | | | | Date: NOV 2023 | | Measurement reminder |
| **Machine name** | **Measurement condition** | **Work Parameters** | **RHs** | **RPM** | **Remarks** | **Next measurement should be done up to:** |
| **Hose crane** | | | | | | |
| Hose crane el. motor | During normal operation |  |  |  |  |  |
| **Provision cranes** | | | | | | |
| Crane hoisting el. motor | During normal operation |  |  |  |  |  |
| Crane luffing el. motor | During normal operation |  |  |  |  |  |
| Crane slewing el. motor | During normal operation |  |  |  |  |  |
| **Fans** | | | | | | |
| Galley Exh fan el. motor | During normal operation | 2.0A |  | 1720.0 | 15-July-2024 |  |
| Steering gear cooling fan no1 el. motor | During normal operation |  |  |  |  |  |
| Steering gear cooling fan no2 el. motor | During normal operation |  |  |  |  |  |
| Steering gear supply fan el. motor | During normal operation | 1.8 A |  | 1720.0 | 15-July-2024 |  |
| **Me aux blowers** | | | | | | |
| ME aux blower no1 el. motor | During normal operation |  |  |  |  |  |
| ME aux blower no2 el. motor | During normal operation |  |  |  |  |  |
| **Diesel Generators** | | | | | | |
| Auxiliary Engine no1 engine | Expected minimum load: 45% |  |  |  |  |  |
| Auxiliary Engine no1 alternator | Expected minimum load/speed on DG: 45% |  |  |  |  |  |
| Auxiliary Engine no2 engine | Expected minimum load: 45% | **T/C RPM: 26105** | 33664 | 900.0 | 15-July-2024 |  |
| Auxiliary Engine no2 alternator | Expected minimum load/speed on DG: 45% | KW:450  630 A | 33664 | 900.0 | 15-July-2024 |  |
| Auxiliary Engine no3 engine | Expected minimum load: 45% |  |  |  |  |  |
| Auxiliary Engine no3 alternator | Expected minimum load/speed on DG: 45% |  |  |  |  |  |
| **ME LO pumps** | | | | | | |
| Main LO pump no1 el. motor | During normal operation | 71A | 54062 | 1775.0 | 15-July-2024 |  |
| Main LO pump no1 | During normal operation |  |  |  |  |  |
| Main LO pump no2 el. motor | During normal operation | 70A | 19270 | 1775.0 | 15-July-2024 |  |
| Main LO pump no2 | During normal operation |  |  |  |  |  |
| **ME HPS pumps** | | | | | | |
| ME HPS pump no1 el. motor | During normal operation |  |  |  |  |  |
| ME HPS pump no2 el. motor | During normal operation |  |  |  |  |  |
| **AE LO priming pumps** | | | | | | |
| AE LO priming pump no1 el. motor | During normal operation |  |  |  |  |  |
| AE LO priming pump no1 | During normal operation |  |  |  |  |  |
| AE LO priming pump no2 el. motor | During normal operation |  |  |  |  |  |
| AE LO priming pump no2 | During normal operation |  |  |  |  |  |
| AE LO priming pump no3 el. motor | During normal operation |  |  |  |  |  |
| AE LO priming pump no3 | During normal operation |  |  |  |  |  |
| **Main CSW pumps** | | | | | | |
| Main CSW pump no1 el. motor | During normal operation |  |  |  |  |  |
| Main CSW pump no1 | During normal operation |  |  |  |  |  |
| Main CSW pump no2 el. motor | During normal operation |  |  |  |  |  |
| Main CSW pump no2 | During normal operation |  |  |  |  |  |
| **Fire, bilge & GS pumps** | | | | | | |
| Fire, bilge & GS pump no1 el. motor | During normal operation |  |  |  |  |  |
| Fire, bilge & GS pump no1 | During normal operation |  |  |  |  |  |
| Fire, bilge & GS pump no2 el. motor | During normal operation |  |  |  |  |  |
| Fire, bilge & GS pump no2 | During normal operation |  |  |  |  |  |
| **IG scrubber CSW pump** | | | | | | |
| Scrubber CSW pump el. motor | During normal operation | 72 A | 7229 | 1775.0 | 15-July-2024 |  |
| Scrubber CSW pump | During normal operation | Suc: 0.8 Bar  Dis : 7.3 Bar | 7229 | 1775.0 | 15-July-2024 |  |
| **IG deck seal water pumps** | | | | | | |
| IG deck seal water pump no1 el. motor | During normal operation |  |  |  |  |  |
| IG deck seal water pump no1 | During normal operation |  |  |  |  |  |
| IG deck seal water pump no2 el. motor | During normal operation |  |  |  |  |  |
| IG deck seal water pump no2 | During normal operation |  |  |  |  |  |
| **LT CFW pumps** | | | | | | |
| LT CFW pump no1 el. motor | During normal operation |  |  |  |  |  |
| LT CFW pump no1 | During normal operation |  |  |  |  |  |
| LT CFW pump no2 el. motor | During normal operation |  |  |  |  |  |
| LT CFW pump no2 | During normal operation |  |  |  |  |  |
| **ME jacket cooling FW pumps** | | | | | | |
| ME cooling water jacket pump no1 el. motor | During normal operation |  |  |  |  |  |
| ME cooling water jacket pump no1 | During normal operation |  |  |  |  |  |
| ME cooling water jacket pump no2 el. motor | During normal operation |  |  |  |  |  |
| ME cooling water jacket pump no2 | During normal operation |  |  |  |  |  |
| **ME jacket preheating pumps** | | | | | | |
| ME jacket preheating pump el. motor | During normal operation |  |  |  |  |  |
| ME jacket preheating pump | During normal operation |  |  |  |  |  |
| **Aux boiler feed water pumps** | | | | | | |
| Auxiliary boiler feed water pump no1 el. motor | During normal operation |  |  |  |  |  |
| Auxiliary boiler feed water pump no1 | During normal operation |  |  |  |  |  |
| Auxiliary boiler feed water pump no2 el. motor | During normal operation |  |  |  |  |  |
| Auxiliary boiler feed water pump no2 | During normal operation |  |  |  |  |  |
| **Composite boiler feed water pumps** | | | | | | |
| Composite boiler feed water pump no1 el. motor | During normal operation |  |  |  |  |  |
| Composite boiler feed water pump no1 | During normal operation |  |  |  |  |  |
| Composite boiler feed water pump no2 el. motor | During normal operation |  |  |  |  |  |
| Composite boiler feed water pump no2 | During normal operation |  |  |  |  |  |
| **FWG ejector pump** | | | | | | |
| FW generator ejector pump el. motor | During normal operation | 26 A | 37690 | 1800 | 15-July-2024 |  |
| FW generator ejector pump | During normal operation |  |  |  |  |  |
| **Aux boiler FO pumps** | | | | | | |
| Aux boiler FO pump no1 el. motor | During normal operation |  |  |  |  |  |
| Aux boiler FO pump no1 | During normal operation |  |  |  |  |  |
| Aux boiler FO pump no2 el. motor | During normal operation |  |  |  |  |  |
| Aux boiler FO pump no2 | During normal operation |  |  |  |  |  |
| **Composite boiler FO pumps** | | | | | | |
| Composite boiler FO pump no1 el. motor | During normal operation |  |  |  |  |  |
| Composite boiler FO pump no2 el. motor | During normal operation |  |  |  |  |  |
| **FO supply pumps** | | | | | | |
| FO supply pump no1 el. motor | During normal operation |  |  |  |  |  |
| FO supply pump no1 | During normal operation |  |  |  |  |  |
| FO supply pump no2 el. motor | During normal operation |  |  |  |  |  |
| FO supply pump no2 | During normal operation |  |  |  |  |  |
| **FO circulation pumps** | | | | | | |
| FO circulation pump no1 el. motor | During normal operation |  |  |  |  |  |
| FO circulation pump no1 | During normal operation |  |  |  |  |  |
| FO circulation pump no2 el. motor | During normal operation |  |  |  |  |  |
| FO circulation pump no2 | During normal operation |  |  |  |  |  |
| **Transfer pumps** | | | | | | |
| HFO transfer pump el. motor | During normal operation |  |  |  |  |  |
| HFO transfer pump | During normal operation |  |  |  |  |  |
| **Separators** | | | | | | |
| LO purifier no1 el. motor | Under full load, 30min after starting and after flushing separator |  |  |  |  |  |
| LO purifier no1 | Under full load, 30min after starting and after flushing separator |  |  |  |  |  |
| LO purifier no2 el. motor | Under full load, 30min after starting and after flushing separator |  |  |  |  |  |
| LO purifier no2 | 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 |  |  |  |  |  |
| 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 |  |  |  |  |  |
| HFO purifier no2 | Under full load, 30min after starting and after flushing separator |  |  |  |  |  |
| **Framo Power Pack** | | | | | | |
| Framo pump no1 el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |  |
| Framo pump no1 | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |  |
| Framo pump no2 el. motor | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |  |
| Framo pump no2 | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |  |
| Framo pump no3 diesel engine | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |  |
| Framo pump no3 | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |  |
| Framo pump no4 diesel engine | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |  |
| Framo pump no4 | Normal operation. Provide information about load and suction/discharge pressure |  |  |  |  |  |
| **Framo feed pumps** | | | | | | |
| Framo feed pump no1 el. motor | During normal operation |  |  |  |  |  |
| Framo feed pump no2 el. motor | During normal operation |  |  |  |  |  |
| Framo feed pump no3 el. motor | During normal operation |  |  |  |  |  |
| **Main air compressors** | | | | | | |
| Main air compressor no1 el. motor | During normal operation |  |  |  |  |  |
| Main air compressor no1 | During normal operation |  |  |  |  |  |
| Main air compressor no2 el. motor | During normal operation |  |  |  |  |  |
| Main air compressor no2 | During normal operation |  |  |  |  |  |
| **Air Condition compressors** | | | | | | |
| AC compressor no1 el. motor | During normal operation |  |  |  |  |  |
| AC compressor no1 | During normal operation |  |  |  |  |  |
| AC compressor no2 el. motor | During normal operation | 46A | 33423 | 1775.0 | 15-July-2024 |  |
| AC compressor no2 | During normal operation | 5.2/17.8 | 33423 | 1775.0 | 15-July-2024 |  |
| **Deck Air compressor** | | | | | | |
| Deck air compressor el. motor | During normal operation | Dis. Press: 7.0 Bars | 23360 | 3600.0 | 15-July-2024 |  |
| **Fridge compressor** | | | | | | |
| Fridge compressor no1 el. motor | During normal operation | 7.0 A | 10842 | 1725.0 | 15-July-2024 |  |
| Fridge compressor no1 | During normal operation | 1.5 / 16.0 | 10842 | 1725.0 | 15-July-2024 |  |
| Fridge compressor no2 el. motor | During normal operation |  |  |  |  |  |
| Fridge compressor no2 | During normal operation |  |  |  |  |  |
| **Steering gear pumps** | | | | | | |
| Steering gear pump no1 el. motor | Idle (no load) | 25 A | 32931 | 1780.0 | 15-July-2024 |  |
| Steering gear pump no1 | Idle (no load) | N/A | 32931 | 1780.0 | 15-July-2024 |  |
| Steering gear pump no2 el. motor | Idle (no load) | 25 A | 38723 | 1780.0 | 15-July-2024 |  |
| Steering gear pump no2 | Idle (no load) | N/A | 38723 | 1780.0 | 15-July-2024 |  |
| **Emergency fire pump** | | | | | | |
| Emergency fire pump el. motor | During normal operation | 60A | 415 | 3545.0 | 15-July-2024 |  |
| Emergency fire pump | During normal operation | Suc: -0.3 Bar  Dis : 7.3 Bar | 415 | 3545.0 | 15-July-2024 |  |
| **Hot water calorifier pump** | | | | | | |
| HW calorifier pump el. motor | During normal operation | N/A |  | 1670.0 | 15-July-2024 |  |
| HW calorifier pump | During normal operation | Suc: 1.7 Bar  Dis : 3.7 Bar |  | 1800.0 | 15-July-2024 |  |
| **ER sludge pump** | | | | | | |
| ER sludge pump el. motor | During normal operation |  |  |  |  |  |
| **ER bilge pump** | | | | | | |
| ER bilge pump el. motor | During normal operation |  |  |  |  |  |
| ER bilge pump | During normal operation |  |  |  |  |  |
| **Composite boiler FD fan** | | | | | | |
| Composite boiler FD fan el. motor | During normal operation |  |  |  |  |  |
| **Aux boiler FD fan** | | | | | | |
| Aux boiler FD fan el. motor | During normal operation |  |  |  |  |  |
| **IG fans** | | | | | | |
| IG fan no1 el. motor | During normal operation |  |  |  |  |  |
| IG fan no2 el. motor | During normal operation |  |  |  |  |  |
| **Purifier room exh fan** | | | | | | |
| Purifier room exh fan el. motor | During normal operation | 3.9A |  | 1720.0 | 15-July-2024 |  |
| **ER ventilation fans** | | | | | | |
| ER ventilation fan no1 el. motor | During normal operation |  |  |  |  |  |
| ER ventilation fan no2 el. motor | During normal operation |  |  |  |  |  |
| ER ventilation fan no3 el. motor | During normal operation |  |  |  |  |  |
| ER ventilation fan no4 el. motor | During normal operation |  |  |  |  |  |
| **AHU Fans** | | | | | | |
| AHU fan el. motor | During normal operation | 18A | 67626 | 1745 | 15-July-2024 |  |
| AHU fan | During normal operation | 18A | 67626 | 1745 | 15-July-2024 |  |
| **Sewage plant** | | | | | | |
| Sewage transfer pump el. motor | During normal operation |  |  |  |  |  |
| Sewage transfer pump | During normal operation |  |  |  |  |  |
| Sewage vacuum pump no1 el. motor | During normal operation |  |  |  |  |  |
| Sewage vacuum pump no1 | During normal operation |  |  |  |  |  |
| Sewage vacuum pump no2 el. motor | During normal operation | N/A |  | 3470.0 | 15-July-2024 |  |
| Sewage vacuum pump no2 | During normal operation | N/A |  | 3470.0 | 15-July-2024 |  |
| **FWG distilate pump** | | | | | | |
| FWG distilate pump el. motor | During normal operation |  |  |  |  |  |
| FWG distilate pump | During normal operation |  |  |  |  |  |