

Q & A INTERVIEW OILER BY DAILY PELAUT

1. What is the duty of an Oiler?

A: Assist Engineer on watch, operate and maintain auxiliary machinery, pumps, and lubrication systems.

ID: Membantu Masinis jaga, operasi dan perawatan mesin bantu, pompa, dan sistem pelumasan. by @daily.pelaut.ID

2. What is main function of lube oil system?

A: To lubricate, cool, and clean moving parts of engine.

ID: Melumasi, mendinginkan, dan membersihkan bagian bergerak mesin.
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3. What is function of lube oil purifier?

A: To remove water and impurities from lube oil.

ID: Memisahkan air dan kotoran dari oli pelumas.
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4. What is sludge in purifier?

A: Impurities and water separated from oil, collected in bowl.

ID: Kotoran dan air yang dipisahkan dari oli, tertampung di bowl.
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5. How often to clean purifier bowl?

A: Every 200-300 operating hours or as per maker's instruction.

ID: Tiap 200-300 jam operasi atau sesuai manual maker.
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6. **What is function of lube oil cooler?**

A: To cool lube oil to maintain viscosity and lubrication.

ID: Mendinginkan oli pelumas agar viskositas dan pelumasan terjaga.

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7. **What is function of lube oil filter?**

A: To remove solid particles from lube oil.

ID: Menyaring partikel padat dari oli pelumas.

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8. **What is differential pressure gauge?**

A: Measures pressure difference across filter to check clogging.

ID: Mengukur beda tekanan di filter untuk cek penyumbatan.

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9. **What is oil mist detector?**

A: Device to detect oil mist in crankcase and give alarm before explosion.

ID: Alat deteksi kabut oli di crankcase dan kasih alarm sebelum meledak.

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10. **What is crankcase explosion?**

A: Explosion due to oil mist ignition caused by hot spot or poor ventilation.

ID: Ledakan karena oli mist menyala akibat hot spot atau ventilasi buruk.

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11. What is function of fuel oil purifier?

A: To remove water and impurities from fuel oil before use.

ID: Memisahkan air dan kotoran dari bahan bakar sebelum dipakai.

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12. What is function of fuel oil heater?

A: To heat fuel oil to reduce viscosity for proper atomization.

ID: Memanaskan bahan bakar untuk turunkan viskositas agar pengabutan bagus.

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13. What is function of fuel oil filter?

A: To remove impurities from fuel oil before entering engine.

ID: Menyaring kotoran dari bahan bakar sebelum masuk mesin.

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14. What is function of fuel injector?

A: To atomize fuel into cylinder at correct timing and pressure.

ID: Mengabutkan bahan bakar ke silinder pada timing dan tekanan tepat.

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15. How to test fuel injector?

A: Use test pump to check spray pattern, opening pressure, leakage.

ID: Pakai test pump untuk cek pola semprotan, tekanan buka, kebocoran.

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16. What is function of fuel oil service tank?

A: To supply clean fuel oil to engine at constant pressure.

ID: Mensuplai bahan bakar bersih ke mesin dengan tekanan konstan.

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17. What is function of settling tank?

A: To allow water and impurities to settle from fuel oil.

ID: Membiarkan air dan kotoran mengendap dari bahan bakar.

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18. What is function of bilge pump?

A: To remove water from bilge space.

ID: Membuang air dari ruang bilge.

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19. What is function of ballast pump?

A: To pump ballast water in and out of ballast tanks.

ID: Memompa air ballast masuk dan keluar tangki ballast.

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20. What is function of fire pump?

A: To supply seawater for firefighting system.

ID: Mensuplai air laut untuk sistem pemadam kebakaran.

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21. **What is function of cooling water pump?**

A: To circulate cooling water through engine and heat exchangers.

ID: Mensirkulasikan air pendingin melalui mesin dan heat exchanger.

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22. **What is function of air compressor?**

A: To produce compressed air for starting, control, and service air.

ID: Menghasilkan udara bertekanan untuk starting, kontrol, dan service air.

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23. **What is interstage cooler?**

A: Cools air between compression stages to reduce temperature and power.

ID: Mendinginkan udara antar tingkat kompresi untuk turunkan suhu dan daya.

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24. **What is unloader?**

A: Device to unload compressor cylinder during start to reduce load.

ID: Alat untuk melepas beban silinder kompresor saat start.

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25. **What is function of NRV?**

A: Non-Return Valve prevents back flow in system.

ID: Katup satu arah untuk mencegah aliran balik.

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26. What is function of pressure relief valve?

A: To release excess pressure to protect system and equipment.

ID: Melepas tekanan berlebih untuk melindungi sistem dan peralatan.

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27. What is function of boiler?

A: To produce steam for heating and power.

ID: Menghasilkan uap untuk pemanasan dan tenaga.

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28. What is low water level alarm?

A: Alarm when boiler water level drops below safe limit.

ID: Alarm saat level air boiler turun di bawah batas aman.

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29. What is boiler safety valve popping pressure?

A: Set pressure at which valve opens to release steam.

ID: Tekanan set di mana katup membuka untuk melepas uap.

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30. What is flame failure alarm?

A: Alarm when burner flame is extinguished during operation.

ID: Alarm saat api burner padam saat operasi.

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31. What is purpose of soot blower?

A: To remove soot from boiler tubes to maintain heat transfer.

ID: Membersihkan jelaga di pipa boiler agar perpindahan panas lancar.

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32. What is cascade tank?

A: Small tank for condensate return in boiler feed system.

ID: Tangki kecil untuk air kondensat kembali ke sistem feed boiler.

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33. What is function of salinity meter?

A: To measure salt content in boiler water and distillate.

ID: Mengukur kadar garam di air boiler dan distillate.

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34. What is evaporator priming?

A: Carry over of seawater with distillate due to high level or foaming.

ID: Air laut terbawa ke distillate karena level tinggi atau foaming. by @daily.pelaut.ID

35. What is function of ejector?

A: Creates vacuum in evaporator by using steam jet.

ID: Membuat vakum di evaporator pakai jet uap.

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36. **What is function of fresh water generator?**

A: To produce fresh water from seawater using heat and vacuum.

ID: Menghasilkan air tawar dari air laut pakai panas dan vakum.

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37. **What is function of refrigeration compressor?**

A: To compress refrigerant gas in refrigeration cycle.

ID: Memampatkan gas refrigerant dalam siklus pendinginan.

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38. **What is low suction pressure trip?**

A: Safety device to stop compressor when suction pressure too low.

ID: Pengaman untuk mematikan kompresor jika tekanan suction terlalu rendah.

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39. **What is hot gas defrost?**

A: Method to defrost evaporator using hot refrigerant gas.

ID: Metode defrost evaporator pakai gas refrigerant panas.

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40. **What is function of condenser in refrigeration system?**

A: To condense refrigerant gas into liquid by cooling.

ID: Mengembunkan gas refrigerant menjadi cair dengan pendinginan.

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41. **What is function of expansion valve?**

A: To reduce pressure and temperature of refrigerant before evaporator.

ID: Menurunkan tekanan dan suhu refrigerant sebelum evaporator.

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42. **What is function of evaporator?**

A: To absorb heat and evaporate refrigerant to produce cooling.

ID: Menyerap panas dan menguapkan refrigerant untuk menghasilkan pendinginan.

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43. **What is function of separator in refrigeration?**

A: To separate liquid refrigerant from gas before compressor.

ID: Memisahkan refrigerant cair dari gas sebelum kompresor.

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44. **What is function of stern tube bearing?**

A: Bearing supporting propeller shaft at stern tube.

ID: Bearing yang menopang poros baling-baling di stern tube.

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45. **What is white metal bearing?**

A: Bearing lined with white metal for good lubrication and wear resistance.

ID: Bearing dilapisi white metal untuk pelumasan dan tahan aus.

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46. **What is function of thrust bearing?**

A: To take axial thrust from propeller.

ID: Menahan gaya dorong aksial dari propeller.

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47. **What is jacking gear?**

A: Gear to slowly turn main engine shaft during maintenance.

ID: Gear untuk memutar poros mesin utama pelan saat maintenance.

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48. **What is turning gear interlock?**

A: Prevents starting engine when turning gear is engaged.

ID: Mencegah mesin start saat turning gear masih terpasang.

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49. **What is function of thermostatic valve?**

A: Valve that regulates flow based on temperature.

ID: Katup yang mengatur aliran berdasarkan suhu.

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50. **What is function of 3-way valve?**

A: Directs flow between two outlets depending on temperature.

ID: Mengarahkan aliran ke 2 jalur tergantung suhu.

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51. What is function of strainer?

A: To remove debris from fluid before entering equipment.

ID: Menyaring kotoran dari fluida sebelum masuk peralatan.

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52. What is function of expansion joint?

A: Absorbs thermal expansion and vibration in piping.

ID: Menyerap pemuaian dan getaran di pipa.

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53. What is pneumatic system?

A: System using compressed air for control and operation.

ID: Sistem yang pakai udara bertekanan untuk kontrol dan operasi.

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54. What is hydraulic system?

A: System using oil under pressure for power transmission.

ID: Sistem yang pakai oli bertekanan untuk transmisi daya.

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55. What is function of accumulator?

A: Stores hydraulic energy and dampens pressure shocks.

ID: Menyimpan energi hidrolik dan meredam kejutan tekanan.

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56. **What is function of sight glass?**

A: To visually check liquid level in tank or system.

ID: Melihat level cairan di tangki atau sistem secara visual.

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57. **What is function of drain valve?**

A: To drain water, sludge, or air from system.

ID: Membuang air, lumpur, atau udara dari sistem.

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58. **What is function of OWS?**

A: Oily Water Separator separates oil from bilge water to below 15ppm.

ID: Pemisah oli dari air bilge agar kurang dari 15ppm sebelum dibuang.

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59. **What is ORB?**

A: Oil Record Book for logging all oil operations onboard.

ID: Buku catatan semua operasi minyak di kapal.

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60. **What is incinerator?**

A: Equipment to burn ship's waste at high temperature.

ID: Alat pembakar sampah kapal pada suhu tinggi.

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61. **What is function of flame arrester?**

A: Prevents flame propagation in venting system.

ID: Mencegah api menjalar di sistem venting.

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62. **What is function of steering gear?**

A: To turn rudder for steering vessel.

ID: Menggerakkan rudder untuk mengemudikan kapal.

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63. **What is steering gear test?**

A: Test steering gear before departure as per SOLAS requirement.

ID: Tes steering gear sebelum berlayar sesuai SOLAS.

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64. **What is function of rudder carrier bearing?**

A: Supports rudder weight and allows rotation.

ID: Menopang berat rudder dan memungkinkan putaran.

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65. **What is function of cylinder lubrication?**

A: To lubricate cylinder liner and piston rings to reduce wear.

ID: Melumasi liner silinder dan ring piston untuk mengurangi keausan.

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66. **What is cylinder lubrication rate?**

A: Amount of cylinder oil fed per hour, adjusted by load and sulfur content.

ID: Jumlah oli silinder per jam, disesuaikan beban dan kadar sulfur.

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67. **What is liner polishing?**

A: Smooth shiny surface on liner due to poor lubrication or overcooling.

ID: Permukaan liner licin mengkilap karena pelumasan buruk atau overcooling.

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68. **How to check piston rings?**

A: Measure ring gap, check wear, check groove clearance during overhaul.

ID: Ukur celah ring, cek keausan, cek celah alur saat overhaul.

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69. **What is scavenge fire?**

A: Fire in scavenge space due to unburnt fuel or oil accumulation.

ID: Kebakaran di ruang scavenging karena sisa bahan bakar/oli.

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70. **What is function of scavenge air cooler?**

A: To cool scavenge air before entering cylinder for better combustion.

ID: Mendinginkan udara bilas sebelum masuk silinder agar pembakaran bagus.

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71. What is function of turbocharger?

A: To increase air intake using exhaust gas energy.

ID: Meningkatkan pemasukan udara pakai energi gas buang.

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72. What is function of turbocharger nozzle ring?

A: To direct exhaust gas to turbine blades at correct angle.

ID: Mengarahkan gas buang ke sudu turbin pada sudut yang tepat.

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73. What is surging in turbocharger?

A: Unstable airflow causing vibration and noise in compressor.

ID: Aliran udara tidak stabil menyebabkan getaran dan suara di kompresor.

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74. What is function of governor?

A: To control engine speed by adjusting fuel supply.

ID: Mengontrol putaran mesin dengan mengatur suplai bahan bakar.

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75. What is overspeed trip?

A: Safety device to stop engine when speed exceeds limit.

ID: Pengaman untuk mematikan mesin jika putaran melebihi batas.

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76. **What is function of starting air system?**

A: To supply high pressure air to start main engine.

ID: Mensuplai udara bertekanan tinggi untuk start mesin utama.

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77. **What is function of air receiver?**

A: To store compressed air for starting and control systems.

ID: Menyimpan udara bertekanan untuk sistem starting dan kontrol.

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78. **What is function of safety valve on air receiver?**

A: To release excess pressure to prevent explosion.

ID: Melepas tekanan berlebih untuk cegah ledakan.

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79. **What is function of main switchboard?**

A: To distribute electrical power to ship's systems.

ID: Mendistribusikan listrik ke sistem kapal.

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80. **What is function of generator?**

A: To produce electrical power onboard.

ID: Menghasilkan listrik di kapal.

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81. What is function of alternator?

A: To convert mechanical energy into electrical energy.

ID: Mengubah energi mekanik menjadi energi listrik.

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82. What is function of voltage regulator?

A: To maintain constant voltage output from generator.

ID: Menjaga tegangan keluaran generator tetap konstan.

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83. What is function of battery?

A: To supply DC power for emergency and starting systems.

ID: Mensuplai listrik DC untuk darurat dan sistem starting.

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84. What is function of battery charger?

A: To charge battery and maintain charge level.

ID: Mengisi dan menjaga level charge baterai.

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85. What is insulation resistance test?

A: Test to check electrical insulation condition using megger.

ID: Tes untuk cek kondisi isolasi listrik pakai megger.

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86. **What is function of seawater cooling system?**

A: To cool fresh water and oil using seawater as cooling medium.

ID: Mendinginkan air tawar dan oli pakai air laut sebagai media pendingin.

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87. **What is function of fresh water cooling system?**

A: To cool engine components using fresh water circulation.

ID: Mendinginkan komponen mesin pakai sirkulasi air tawar.

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88. **What is function of heat exchanger?**

A: To transfer heat between two fluids without mixing them.

ID: Memindahkan panas antar dua fluida tanpa mencampurnya.

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89. **What is function of thermostat?**

A: To regulate temperature by controlling coolant flow.

ID: Mengatur suhu dengan mengontrol aliran coolant.

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90. **What is function of expansion tank?**

A: To allow expansion of cooling water and maintain system pressure.

ID: Menampung pemuaian air pendingin dan menjaga tekanan sistem.

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91. **What is function of sludge tank?**

A: To collect oily sludge from purifiers and OWS.

ID: Menampung lumpur berminyak dari purifier dan OWS.

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92. **What is function of waste oil tank?**

A: To store waste oil before disposal ashore.

ID: Menyimpan oli bekas sebelum dibuang di darat.

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93. **What is function of bilge separator?**

A: To separate oil from bilge water to meet discharge standard.

ID: Memisahkan oli dari air bilge agar memenuhi standar pembuangan.

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94. **What is function of bilge alarm?**

A: To alarm when oil content in discharge exceeds 15ppm.

ID: Alarm saat kandungan oli di pembuangan melebihi 15ppm.

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95. **What is function of sounding pipe?**

A: Pipe leading to tank bottom for measuring liquid level.

ID: Pipa menuju dasar tangki untuk mengukur level cairan.

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96. What is function of air pipe?

A: Pipe to allow air to escape during tank filling and prevent vacuum.

ID: Pipa untuk mengeluarkan udara saat pengisian tangki dan cegah vakum.

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97. What is function of drip tray?

A: To collect oil leakage under machinery.

ID: Menampung kebocoran oli di bawah mesin.

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98. What is function of grease nipple?

A: Fitting for applying grease to bearings and moving parts.

ID: Fitting untuk memberi gemuk pada bearing dan bagian bergerak.

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99. What is function of gland packing?

A: To seal shaft and prevent leakage in pumps and valves.

ID: Menyegel poros dan mencegah kebocoran pada pompa dan katup.

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100. What is function of mechanical seal?

A: To prevent leakage between rotating shaft and stationary casing.

ID: Mencegah kebocoran antara poros berputar dan casing diam.

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