

Final Exam

A. Fill in the gaps using the words below. (15 points)

barge measures regulations limits carbon temperature deflections

valve inspected hoses bunkering wear fuel position refinery

- The centrifuge should always be operated with an inlet _____ of 98 C.
- On completion of loading, all _____ and lines should be drained to the tank or to the _____.
- All _____ operations should be carefully planned and executed according to the MARPOL _____.
- During the delivery of _____, you should take _____ against spills.
- Vanadium combined with sodium may lead to exhaust _____ corrosion and turbocharger _____.
- When you take _____, punch marks are present to show the correct _____ for the measuring tool.
- If the crankshaft deflection approaches the tolerance _____, the bearing shells of the two adjacent main bearings must be dismantled and _____.
- The fuels which go through extensive _____ processing are left with high _____ content.

B. Fill in the gaps using the words below. (15 points)

rate hours water ridges repairs tackles quality marks check

surface conditions frequency lubricating schedules inspect

- The checking and maintenance _____ indicate the intervals at which it is appropriate to _____ the components of the engine and to carry out _____.
- The recommended _____ of service should only be used as a guide, as differences in the actual service _____, the _____ of the fuel oil or lubricating oil, the treatment of cooling _____, etc. will influence the service results, and the _____ of overhauls.
- When you want to _____ the cylinder liner you should first dismantle the cylinder cover, the piston cleaning ring and the piston.
- Carefully scratch over any _____ on the liner and grind away the wear _____.
- Clean any blocked _____ ducts.
- Lower the cooling jacket by means of the _____ and land it on the wooden planks.
- When the ring is in good condition you can still see the machining marks on its _____.
- The centrifuge must operate with the proper flow _____.

C. Fill in the gaps with a word/phrase of your own choice. (20 points)

- A mixture of incompatible _____ in the tanks can result in rather large amounts of sludge being taken out by the _____.
- Clean the _____ liner and scavenge air ports.
- Apply a thin layer of _____ on the contact surface of the liner.
- The screws are too _____ here. You need to loosen them.
- Corrosive _____ may be the result of the formation of sulphuric acid on the cylinder wall.
- In order to reduce the risk of _____, use alkaline cylinder oils to neutralise the

_____ that may be formed.
--The ability to _____ water from the oil depends largely on the specific _____ of the fuel oil in relation to that of water.

D. Fill in the gaps with a suitable form of the words in parentheses. (10 points)

- The water separation _____ (able) of the fuel oil is ensured by limiting the _____ (dense) for reasons of centrifuging.
- The sulphur _____ (contain) of a fuel has a negligible effect on the combustion process.
- As heavy fuel oil is more _____ (viscosity) than marine diesel oil, it cannot be pressed through the injectors without proper _____ . (treat)
- Maintain the proper temperature to avoid the _____ of the steam. (condense)
- Fuels often contain _____ to be of better quality. (add)
- Fuels which are produced on the basis of _____ (differ) crude oils tend to be _____ (stability) when mixed.
- Marine fuel oils should be thoroughly cleaned to remove solid and liquid _____ (contaminate) before use.
- Ash represents non- _____ (combustion) solid material as well as metals bound in the fuel.
- The fuel oil system consists of a cleaning plant and a _____ (pressure) fuel oil system.
- You should always pay _____ to the manufacturer’s recommendations. (attend)
- The periodical survey _____ (require) of the _____ (classify) society may require additional checks and overhauls to be carried out.
- _____ (verify) of gauging system operation and _____ (accurate) should be considered during bunkering procedures.
- You have to make _____ for the engine to work properly. (adjust)
- They checked the _____ of the crankshaft. (align)
- We need to clean the _____ (vary) impurities through centrifuge.

E. Match the words in column A to their synonyms in column B, and write the pairs below. (7.5 points)

A	B
location	micro-seizure
appropriate	soft
reduction	prove that something is true
smooth	deviation
excessive	holes
assess	place
bores	decrease
scuffing	proper
deflection	evaluate
verify	too much

F. Match the words in column A to their opposites in column B, and write the pairs below. (7.5 points)

A	B
deteriorate	careless
internal	theoretical
sufficient	incapable
reduce	thick
able	insignificant
actual	external
thin	increase
important	tighten
loosen	inadequate
careful	improve

G. Choose one of the three topics and write a paragraph of about 120 words (25 points)

- a) Discuss possible causes of excessive fuel consumption and how this problem can be fixed.
- b) Discuss what you should do to minimize the risk of spillages and leakages during bunkering.
- c) Discuss why, when and how you take crankshaft deflections.