

FINAL EXAM

A. Fill in the gaps with one of the words below. (15 points)

*loose acids leaks manufacturers deflections
thickness jammed residual overhauled average*

1. The alkaline lubricating oils neutralize the _____.
2. _____ fuels produce carbon.
3. _____ show if the axis of the crank journals has deviated from the theoretical axis.
4. Engine _____ set the acceptable deflection limits.
5. What is the _____ consumption the last two hours of operation?
6. The engine should be _____ and cleaned at regular intervals.
7. If you dismantle the running gear, you should make sure that no _____ parts are _____ when the engine is turned over.
8. Pipes must be pressure tested for possible _____.
9. The oil film should have the right _____.

B. Fill in the gaps with one of the words below. There are three extra words you do not need to use. (15 points)

*viscosity barge ignition sulphur burning flash point watertight
pour point liquid bunkering erosion discharge ullages*

1. When the Chief Engineer checks all the _____ tanks, the most important measurements refer to soundings, temperatures and _____.
2. The function of the bilge system is to drain any _____ compartment other than ballast, oil or water tanks and to _____ the contents overboard.
3. During _____ the Chief Engineer takes precaution measures against pollution
4. _____ is the measure of the resistance of the _____ to movement.
5. Cetane Number indicates the _____ quality of a fuel.
6. The _____ contained in a fuel is responsible for "low temperature" corrosion which attacks cylinder liners and piston rings.
7. _____ indicates the ability of a fuel to flow at cold operating temperatures.

C. Fill in the gaps with the correct derivative of the words in parentheses. (10 points)

1. The Chief Engineer can check the level of tanks by means of a remote level _____ system. (detect)
2. Sulphur, carbon residues, ash and water are all _____ materials in the fuel oils. (harm)
3. The emergency bilge pump is a totally _____ unit capable of operating even if it is covered with water. (depend)

4. _____ should be paid to all combustible materials in the machinery space. (attend)
5. The sounding tape which is used to measure the tanks before bunkering starts must be _____ and not modified. (rely)
6. You should take _____ measures against accidents. (prevent)
7. You must _____ all nuts and bolts. (tight)
8. Good maintenance guarantees _____ readiness. (operation)
9. The _____ wear was extensive. (corrode)
10. This system will improve the _____ of oil on the liner surface. (distribute)

D. Match the words in column A to their opposites in column B. (10 points)

A	B
presence	same
loose	improvement
gradual	reduce
deterioration	put back
increase	absence
remove	tight
internal	automatically
different	quick
manually	net
gross	external

E. Match the words in column A to their synonyms in column B. (10 points)

A	B
convert	critical
crucial	scrape off
weaken or make worse	wrong
suitable	important
affect	provide
clearance	turn into
inappropriate	influence
supply	impair
abrade	appropriate
significant	play

F. Give one word that derives (comes from) the verbs below. (10 points)

E.g. : consume consumption

1. reduce _____
2. contaminate _____
3. align _____
4. inspect _____
5. indicate _____
6. extend _____
7. access _____
8. expand _____
9. vary _____
10. convert _____

G. Choose either a or b. (30 p.)

a. Write a paragraph about crankshaft deflections. More particularly, you should refer to why, when and how you take deflections as well as to any factors which can affect the whole procedure and the recorded readings. (Approximate length: 100 words)

b. During your voyage you noticed excessive fuel consumption. Write a formal letter to the Superintendent Engineer of the shipping company to inform him about the measures you took to find the cause of the problem and solve it.
(Approximate length: 100 words) (30 points)