SCOTTISH QUALIFICATIONS AUTHORITY
MARKERS REPORT FORM

SUBJECT: 060-03 Auxiliary Equipment Part I

DATE: 05/11/21

General Comments on Examination Paper

General Comments of Specific Examination Questions.

Question 1. Mainly well answered. Candidates loose marks by not how the valve closes after it has been tripped.

Question 2. Many still mentioning air bubbles, some even saying that boiling causes air bubbles to form. Hardly any make any reference to NPSH or vapour pressure.

Question 3. Well answered

Question 4. Well answered by most

Question 5. Most, not all, make a reasonable sketch but few can then relate the sketch, or use it, to show the need for spherical bearings.

Question 6. Some do not understand the term Electro-Hydraulic. Some use engines to manoeuvre even though the question states a single CPP. There is more to maintaining manoeuvring than just switching to the local control. The question states that the CPP assumes zero pitch on failure of the hydraulics – this is therefore the fail safe position. Several appear to have a further spring in the hub to give pitch on the blade.

Question 7. Some sketches are very poor and show little understanding of the mode of operation of the coupling, this is then reflected in the answer. Many think that the separation oil is only for lubrication.

Question 8. Many do not explain how the alignment is checked – simply stating use dial indicator with a sketch of it in position is not enough. Some, not many, mention shims but none actually explain which shims would be adjusted to change the alignment or that angular misalignment can be in more than one plane.

Question 9. Several mention the parameters and then totally ignore them in part b. Many state what will occur but not the consequences – eg high current but not explaining that this will cause overheating and damage.

Question 10. The question is just asking for the features of the rotor and stator, many struggle with this, unable to even say that the rotor is supported in bearings in the covers. Many explain how a motor works rather than describe its construction.