071605T4AMEM

AGRICULTURAL MACHINERY AND EQUIPMENT MECHATRONICS LEVEL 5 ENG/OS/AME/CR/5/5/A

Maintain Hydraulic and Pneumatic Systems

Nov/Dec 2024



TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)

PRACTICAL ASSESSMENT

Time: 3 HOURS

OBSERVATION CHECKLIST

Candidate's name & Registration Code						
Assessor's name & Registration Code						
Venue of Assessment						
Date of assessment						
Items to be evaluated: Please award marks as appropriate. Give a brief comment on your observation.	Marks available	Marks obtained	Comments			
TASK 1: CARRY OUT PRE-START CHECKS	ON HYD	RAULIC	SYSTEMS OF A			
TRACTOR						
1. Wore PPEs	4					
 Overall 						
• Boots						
• Gloves						
• Helmet						
(Award 1 mark for each PPE worn or zero mark)						

2. C	Checked loose hoses	2		
	(Award 2 marks or zero mark)			
3. C	Checked leakages	2		
	(Award 2 marks or zero mark)			
4. C	Checked hydraulic oil level	2		
	(Award 2 marks or zero mark)			
5. C	Checked oil condition	2		
	(Award 2 marks or zero mark)			
Sub-Tot	tal 1	12		
Т	TASK 2: SERVICE HYDRAULIC SYSTEM	OF A T	RACTOR	S
6. R	Removed hydraulic oil filter Identified the hydraulic oil filter	4		
•	Positioned the oil drain pan under the filter	Phi .		
	Cleaned filter elements Drained old hydraulic oil	2		
	Place the drain pan under the drain plug			
	(Award 1 mark for each or zero mark)			
8. D	Orain the hydraulic oil Removed the oil drain plug and allow the	2		
	hydraulic oil to drain completely			
	• Reinstalled and tighten drain plug			
	(Award 1 mark for each or zero mark)			
9. li	nstalled new hydraulic oil filter Removed and clean hydraulic oil filter	8		
•	Placed the oil pan under the filter			
•	Used oil filter wretch to remove old			
	hydraulic oil filter			
•	Installed the new filter with hands			
	(Award 2 marks for each x 4)			
10. R	Refilled new hydraulic oil	3		
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 Located the hydraulic oil filter cap 			
• Placed the funnel on the hydraulic oil tank			
opening			
Added new hydraulic oil			
(Award 1 mark for each or zero mark)			
11. Performed post operation activitiesChecked hydraulic oil level	4		
• Cranked the engine and let it run for 10			
minute			
Re-checked the hydraulic oil level using			
dip stick			
 Added or drained more if necessary 			
(Award 1 mark for each or zero mark)	^		
Sub-Total 2	23		
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GRAND TOTAL	35		
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