



NZQA accredited and registered provider

Lubricants

PRACTICE PAPER ONLY

Test Paper One / Time allowed 60 mins

To be completed by the student

Student Name _____ **Date** __ / __ /2021

School/Provider _____

To be completed by the School Invigilator/Coordinator/Tutor

I confirm that this assessment was completed by the student named above as a closed book exercise under exam conditions

Invigilator Name _____

Invigilator Sign _____

Assessed By _____

Date __ / __ / 2021

**Assessor's
Stamp**

Assessors Note: Materials relate to unit standard 21680-30478

SAMPLE ASSESSMENT INSTRUCTIONS

PLEASE MAKE SURE TO READ AND SIGN THIS SECTION

ASSESSMENT INSTRUCTIONS

- Before starting this assessment you should have achieved a mark of at least 80% for your workbook.
- Use a black or blue ball point pen. (do not use pencil)
- Write your full name on the cover page.
- This is a closed book assessment, so you cannot bring any reference material in, or seek help from anyone else.
- You need to answer all the questions.
- Read the questions carefully, and give detailed answers when asked to.
- You must complete the assessment under exam conditions.
- To achieve the unit standard you must show competency for each outcome.

Complete the following by circling Yes or No as appropriate:

Are you ready to be assessed? **Yes No**

Have the assessment instructions these been explained to you? **Yes No**

Do you understand the assessment instructions? **Yes No**

Have you all the materials/resources that you need for this assessment? **Yes No**

Please sign to acknowledge that you have read these instructions and are ready to be assessed.

Student Signature: _____ Date: _____

ELEMENT ONE

Demonstrate knowledge of lubricants and lubrication systems.

- 1. Complete the table by describing how lubricants carry out each of the functions listed.**

Lubricates	
Cools	
Prevents corrosion	
Cleans	
Seals	

2. What is the relationship between engine speed and oil viscosity?

3. Provide 2 advantages and 2 disadvantages of high viscosity oil.

Advantages

Disadvantages

4. Engine oil has an API rating, what does this mean?

5. Some engine oils have a 'W' as part of their rating. What does this mean?

6. What is the relationship between engine oil viscosity and temperature?

7. List 5 main functions of grease.

8. What is meant by the 'dropping point of grease'?

9. Complete the table by describing the function of each engine oil additive.

Detergent	
Extreme pressures	
Anti-rust	
Foam inhibitor	
Seal swell	
Viscosity Index Improver	

10. Describe the main purpose of the lubrication system.



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