**Activity 3:**

**Characteristics and Properties Answers**

**Name: Date:**

***These answers will form part of your assessment for this module. Think carefully about your answers.***

1. What are the four basic types of lubricant?
2. Name a suitable method used to distribute oil in a simple machine (eg. one horizontal shaft and a few bearings).
3. What are the three classes of lubricants according to their source?
4. What does viscosity grade mean, what units is it measured in and how is it measured?
5. How do we apply fresh grease into a bearing?
6. What does viscosity index mean and what are the temperature ranges where it is measured?
7. What does a low and high viscosity index indicate?
8. Explain the following terms:

Flash Point

Oxidation Resistance

Pour Point

Emulsion

Emulsification

Fire Point

Demulsibility

1. What does the NLGI stand for?
2. When measuring a grease-based lubrication what is the NLGI No. for a Semi Firm consistency and the ASTM number for a NLGI No 5?
3. Explain the four criteria for measuring the properties of a grease.