

Contents

CHAPTER ONE	4
Introduction	4
1.1. Introduction	4
1.2. Introduction of lubricants	5
1.2.1. Mineral base oils	6
1.2.2. Synthetic oil.....	6
1.2.3. Semi-synthetic oil.....	6
1.3. Function of Lubricants	8
1.3.1. Reduced friction	8
1.3.2. Cooling	8
1.3.3. Load equalization	8
1.3.4. Cleaning.....	9
1.3.5. Sealing.....	9
1.3.6. Rust hindrance	9
1.4. Lubricants Classification.....	9
1.4.1. Classification by material	9
1.4.2. Classification by use	11
1.4.3. Classification by Viscosity.....	12
1.4.3.1. Mono Grade	12
1.4.3.2. Multi Grade.....	13
1.4.4. Classification by performance.....	13
1.5. Introduction to company	14
1.6. Company products type.....	14
1.6.1. Diesel engine oil - HEAVY DUTY DIESEL ENGINE OILS	15
1.6.2. Petrol engine oil - PASSENGER CAR MOTOR OILS.....	15
1.6.3. Motorcycle oils - REVTRON 4T	16
1.6.4. Three Wheeler Oils – ACTRON	16
1.6.5. Automotive Speciality oil	17
1.6.6. Industrial oil	17

1.6.7. Greases.....	18
1.7. Problem statements.....	18
1.7.1. Research Limitation	18
1.8. Research Problem	19
1.9. Objective of the study	19
1.10. Research Process	19
1.11. Research Scope.....	20
1.12. Significant of the study	20
CHAPTER TWO	22
Literature Review	22
2.1. Introduction.....	22
2.2. Related Literature.....	22
2.2.1. Lubricants and Gas.....	22
2.2.2. Inventory Managements.....	25
2.2.3. Forecasting Technique	28
2.2.4. Demand Forecasting	31
CHAPTER THREE.....	37
Methodology	37
3.1. Research Design	37
3.2. Population & Sample	38
3.3. Data collection	38
3.3.1. Primary data sources	38
3.3.2. Secondary data sources	38
3.4. Data analysis.....	38
3.5. Descriptive analysis.....	38
3.6. Model Developments.....	39
3.6.1. Conceptual framework	39
CHAPTER FOUR.....	40
Research Findings.....	40
4.1. Introduction.....	40
4.2. Data Screening	40
4.2.1. Sales	40

4.2.2. Vehicle population, GDP, All island Paddy production, Export.....	42
4.3. Descriptive analysis using annual data	43
4.3.1. Sales Volume and Vehicle population.....	44
4.3.2. Sales Volume and GDP growth rate	45
4.3.3. Sales Volume and All island paddy production.....	46
4.3.4. Sales Volume and export	47
4.4. Descriptive analysis using quarterly data	48
4.4.1. Sales data	48
4.5. Model Developments.....	52
4.6. Comparisons	55
CHAPTER FIVE	59
Conclusion and Future Research Direction.....	59