



**CONTENTS**

FOREWORD ..... 1- 1

    FOREWORD ..... 1- 2

    SAFETY INFORMATION ..... 1- 5

    INTRODUCTION ..... 1- 7

        DIRECTIONS OF MACHINE ..... 1- 7

    PRODUCT INFORMATION ..... 1- 8

        MACHINE SERIAL NUMBER PLATE AND ITS LOCATION ..... 1- 8

        ENGINE SERIAL NUMBER PLATE AND ITS LOCATION ..... 1- 8

        EMISSION CONTROL INFORMATION LABEL AND ITS LOCATION ..... 1- 9

        SERVICE METER LOCATION ..... 1- 9

        YOUR MACHINE SERIAL NUMBERS AND DISTRIBUTOR ..... 1- 10

SAFETY ..... 2- 1

    SAFETY INFORMATION ..... 2- 2

    WARNING LABELS AND PICTOGRAMS ..... 2- 4

        WARNING LABELS AND PICTOGRAMS - LOCATION ..... 2- 5

        WARNING LABELS AND PICTOGRAMS - ACTUAL ..... 2- 6

    SAFETY INFORMATION ..... 2- 12

    SAFETY MACHINE OPERATION ..... 2- 20

        STARTING ENGINE ..... 2- 20

        OPERATION ..... 2- 22

        TRANSPORTATION ..... 2- 28

        BATTERY ..... 2- 29

        TOWING ..... 2- 31

        LIFTING OBJECTS WITH BUCKET ..... 2- 32

    SAFETY MAINTENANCE INFORMATION ..... 2- 33

OPERATION ..... 3- 1

    MACHINE VIEW ILLUSTRATIONS ..... 3- 2

        OVERALL MACHINE VIEW ..... 3- 2

        CONTROLS AND GAUGES ..... 3- 3

    DETAILED CONTROLS AND GAUGES ..... 3- 4

        MONITORING SYSTEM ..... 3- 4

        SWITCHES ..... 3- 9

        CONTROL LEVERS AND PEDALS ..... 3- 12

        WINDSHIELD ..... 3- 17

        SLIDING DOOR ..... 3- 20

        SLIDING WINDOW ..... 3- 21

        REAR WINDOW ..... 3- 21

        EMERGENCY ESCAPE HAMMER ..... 3- 22

        CAP WITH LOCK ..... 3- 23

        ENGINE HOOD ..... 3- 24

        MUD COVER ..... 3- 25

        FUSE ..... 3- 26

        BLOCK FUSE ..... 3- 26

        AUXILIARY ELECTRIC POWER ..... 3- 27

        OPERATION MANUAL STORAGE ..... 3- 27

        TOOL BOX ..... 3- 27

        GREASE PUMP HOLDER ..... 3- 28

        ASHTRAY ..... 3- 28

    MACHINE OPERATIONS AND CONTROLS ..... 3- 29

BEFORE STARTING ENGINE -----	3- 29
STARTING ENGINE -----	3- 43
AFTER STARTING ENGINE -----	3- 46
STOPPING THE ENGINE -----	3- 48
CHECK AFTER SHUT OFF ENGINE -----	3- 48
MACHINE OPERATION -----	3- 49
STEERING THE MACHINE -----	3- 53
SWINGING -----	3- 55
WORK EQUIPMENT CONTROLS AND OPERATIONS -----	3- 56
PROHIBITED OPERATIONS -----	3- 58
GENERAL OPERATION INFORMATION -----	3- 60
TRAVELING ON SLOPES -----	3- 62
ESCAPE FROM MUD -----	3- 64
RECOMMENDED APPLICATIONS -----	3- 65
BUCKET REPLACEMENT -----	3- 67
PARKING MACHINE -----	3- 68
MACHINE INSPECTION AFTER DAILY WORK -----	3- 69
LOCKING -----	3- 69
RUBBER SHOES AND ROAD LINERS -----	3- 70
TRANSPORTATION -----	3- 75
TRANSPORTATION PROCEDURE -----	3- 75
LOADING AND UNLOADING WITH TRAILER -----	3- 75
LIFTING MACHINE -----	3- 80
COLD WEATHER OPERATION -----	3- 82
COLD WEATHER OPERATION INFORMATION -----	3- 82
CAB HEATER IN COLD WEATHER -----	3- 83
AFTER DAILY WORK COMPLETION -----	3- 84
AFTER COLD WEATHER SEASON -----	3- 84
LONG TERM STORAGE -----	3- 85
BEFORE STORAGE -----	3- 85
DURING STORAGE -----	3- 85
AFTER STORAGE -----	3- 86
TROUBLES AND ACTIONS -----	3- 87
RUNNING OUT OF FUEL -----	3- 87
PHENOMENA THAT ARE NOT FAILURES -----	3- 87
TOWING THE MACHINE -----	3- 87
SEVERE JOB CONDITION -----	3- 88
DISCHARGED BATTERY -----	3- 88
OTHER TROUBLE -----	3- 92
MAINTENANCE -----	4- 1
MAINTENANCE INFORMATION -----	4- 2
LUBRICANTS, COOLANT AND FILTERS -----	4- 4
HANDLING OIL, FUEL, COOLANT, AND PERFORMING OIL CLINIC -----	4- 4
ELECTRIC SYSTEM MAINTENANCE -----	4- 6
WEAR PARTS -----	4- 7
WEAR PARTS LIST -----	4- 7
LUBRICANTS, FUEL AND COOLANT SPECIFICATIONS -----	4- 8
PROPER SELECTION -----	4- 8
TIGHTENING TORQUE SPECIFICATIONS -----	4- 12
TIGHTENING TORQUE LIST -----	4- 12