

Foreword

Caterpillar products are a result of advanced engineering, skilled manufacturing, and the finest materials metallurgical science can select. Thousands of satisfying, economical working hours are built into each machine.

Whether or not the owner derives the maximum service from his machine depends largely on the care exercised in its operation and maintenance. This book is written to give the operator essential information regarding the day-to-day operation, lubrication and adjustment of the machine. Careful adherence to these instructions will result in assured economy.

More and more Caterpillar owners are depending upon their dealer for service other than the care and adjustments described in this book. This practice is recommended because Caterpillar dealers have stocks of genuine Caterpillar parts and are equipped with tools designed and built by Caterpillar. Their servicemen are factory-trained and are kept closely informed by the factory regarding advanced methods of servicing Caterpillar products — thus, in all ways they are equipped to render the best of service.

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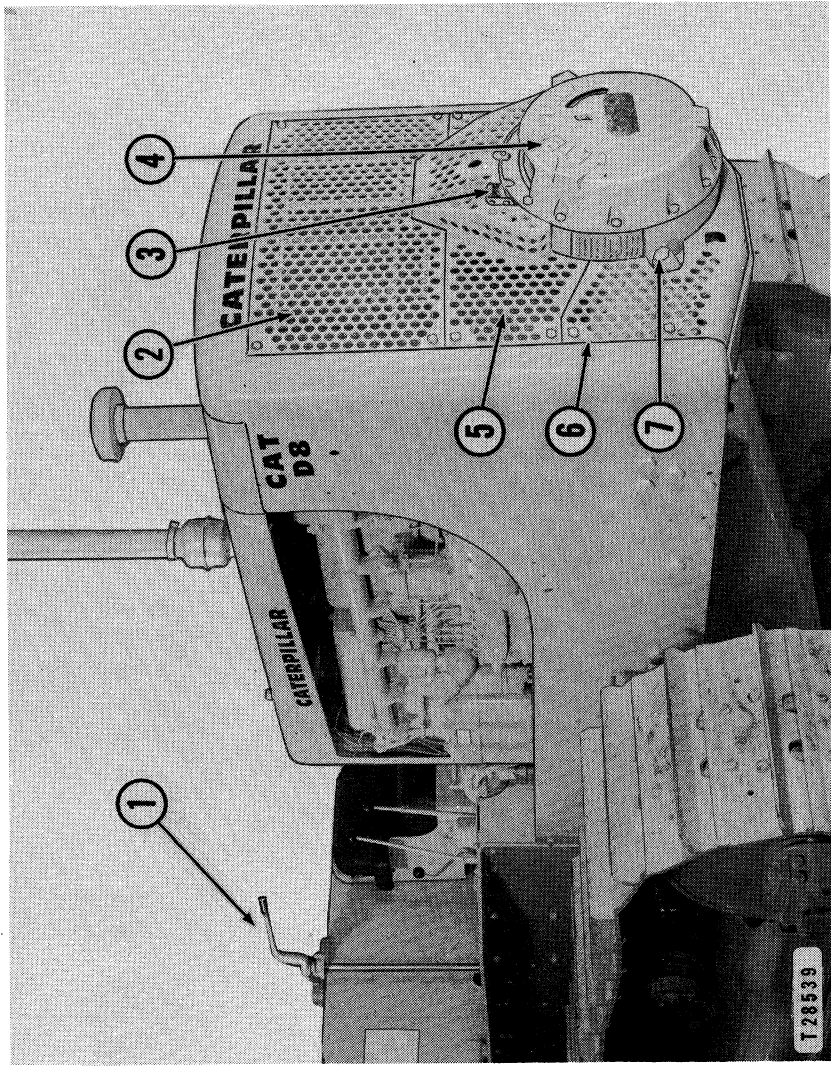
Avoid Accidents

Most accidents, whether they occur in the air, in industry, on the farm, at home, on the highways, or at sea, are caused by someone's failure to follow simple and fundamental safety rules or precautions. For this reason most accidents can be prevented by recognizing the real cause and doing something about it before the accident occurs.

Regardless of the care used in the design and construction of any type of equipment, there are many conditions that cannot be completely safeguarded against without interfering with reasonable accessibility and efficient operation.

A careful operator is the best insurance against an accident.

The complete observance of one simple rule would prevent many thousands of serious injuries each year. That rule is: "Never attempt to clean, oil or adjust a machine while it is in motion."



NO. 30 CABLE CONTROL - RIGHT FRONT VIEW
(Front Mounted Single Drum on D8 Tractor)

1-Control lever. 2-Radiator upper guard. 3-Cable control linkage. 4-Cable control filler plug.
5-Radiator right center guard. 6-Radiator lower guard. 7-Cable control filler plug.

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Lubrication Instructions

GENERAL LUBRICATION INFORMATION

Detailed instructions regarding the lubrication of the cable control are given in the lubrication chart and in the illustrations following. The lubrication chart specifies the points to be serviced, the hourly intervals, and the type of lubricant to be used. Hourly intervals are to be interpreted as—those recorded on the Service Meter of the tractor. The hours indicated are for normal service. For operating conditions of extreme water, dust or mud lubricate more frequently. Clean the fittings before using the grease gun so that dirt will not be carried in with the lubricant.

Use the brush supplied in the tractor tool equipment to remove dirt from fittings and to clean around the breather and inspection covers before removing. Lubricate all miscellaneous points, not equipped with fittings, with crankcase lubricating oil every 50 service hours.

The following topics recommend the types, viscosities and grade of lubricants best suited for use in your cable control for various operating temperatures. The S.A.E. or N.L.G.I. number refers only to the viscosity of the oil, and has reference to no other characteristic or property.

BALL AND ROLLER BEARING LUBRICANT (Abbreviated BR)

(BR) This lubricant is a mixture of mineral oil and metallic soaps. Use No. 2 grade for most temperatures. For extremely low temperatures use No. 0 or No. 1 grade.

This grease can be applied to all bearing points—plain bushings, ball bearings and roller bearings—where equipped with hydraulic pressure fittings or when bearings are hand packed.

Use only a high grade Ball and Roller Bearing Grease of short fiber. This grease must be satisfactory in anti-friction bearings at speeds up to 3000 R.P.M. at a maximum temperature of 300° F. It is a grease with sufficient adhesive qualities to cling to the bearings in all extremes of high and low operating temperatures. Greases of this kind have been classified by grades by the N.L.G.I. (National Lubricating Grease Institute) designated in the order of "worked" penetration or consistency.

TRANSMISSION OIL (Abbreviated TO)

(TO) MIL-L-2105 or Straight Mineral Oil: Use either an oil conforming to the requirements of MIL-L-2105 specification or a straight mineral transmission oil, whichever is most convenient.

At temperatures above freezing use S.A.E. No. 90 oil, but when operating continuously in extremely hot temperatures, use S.A.E. No. 140 oil.

Below freezing S.A.E. No. 80 oil will be required, however, in extremely cold weather S.A.E. No. 80 oil should be diluted with sufficient kerosene to provide fluidity.

LUBRICATION CHART
CATERPILLAR[®]
NO. 30 CABLE CONTROL

The folded page is arranged to serve two purposes:

First, it is a complete outline of all the information required to lubricate the cable control.

Second, the illustration and identification of points of lubrication can be used with the detailed illustrations and information on the pages following the chart as a reference for lubrication and service information.