

## SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING

### F01 MACHINES OR ENGINES IN GENERAL; ENGINE PLANTS IN GENERAL; STEAM ENGINES

#### F01M LUBRICATING OF MACHINES OR ENGINES IN GENERAL; LUBRICATING INTERNAL-COMBUSTION ENGINES; CRANKCASE VENTILATING [2]

##### Note(s) [2006.01]

1. Attention is drawn to the Notes preceding class F01, especially as regards Note (3).
2. Attention is drawn to the following places, which cover lubrication of specific machines or engines:
  - F01B 31/10.....Steam engines
  - F01C 21/04.....Rotary-piston or oscillating-piston machines or engines
  - F01D 25/18.....Non-positive-displacement machines
  - F02C 7/06.....Gas-turbine plants
  - F02F 1/20.....Cylinders of combustion engines
  - F04B 39/02.....Pumps for elastic fluids
  - F04C 29/02.....Rotary-piston or oscillating-piston pumps for liquids
  - F04D 29/04.....Non-positive-displacement pumps

##### Subclass index

PRESSURE LUBRICATION.....	1/00
SPECIAL LUBRICATION.....	3/00, 7/00, 9/00
LUBRICANT CONDITIONING.....	5/00
DETAILS, ACCESSORIES.....	11/00
CRANKCASE VENTILATION.....	13/00

<b>1/00 Pressure lubrication [1, 2006.01]</b>	1/28 • • • • acting on engine combustion-air supply [1, 2006.01]
1/02 • using lubricating pumps [1, 2006.01]	
1/04 • using pressure in working cylinder or crankcase to operate lubricant-feeding devices [1, 2006.01]	<b>3/00 Lubrication specially adapted for engines with crankcase compression of fuel-air mixture, or for other engines in which lubricant is contained in fuel, combustion air, or fuel-air mixture</b> (separating lubricant from air or fuel-air mixture before entry into cylinder F01M 11/08) [1, 2006.01]
1/06 • Lubricating systems characterised by the provision therein of crankshafts or connecting-rods with lubricant passageways, e.g. bores [1, 2006.01]	3/02 • with variable proportion of lubricant to fuel, lubricant to air, or lubricant to fuel-air mixture [1, 2006.01]
1/08 • Lubricating systems characterised by the provision therein of lubricant-jetting means [1, 2006.01]	3/04 • for upper cylinder lubrication only [1, 2006.01]
1/10 • Lubricating systems characterised by the provision therein of lubricant venting or purifying means, e.g. of filters (mounting of, connecting of, or constructional details of lubricant purifying means F01M 11/03) [1, 2006.01]	<b>5/00 Heating, cooling, or controlling temperature of lubricant</b> (arrangement of lubricant coolers in engine cooling system F01P 11/08); <b>Lubrication means facilitating engine starting</b> [1, 2006.01]
1/12 • Closed-circuit lubricating systems not provided for in groups F01M 1/02-F01M 1/10 [1, 2006.01]	5/02 • Conditioning lubricant for aiding engine starting, e.g. heating [1, 2006.01]
1/14 • Timed lubrication (F01M 1/08 takes precedence) [1, 2006.01]	5/04 • • Diluting, e.g. with fuel [1, 2006.01]
1/16 • Controlling lubricant pressure or quantity [1, 2006.01]	<b>7/00 Lubrication means specially adapted for machine or engine running-in</b> [1, 2006.01]
1/18 • Indicating or safety devices (concerning lubricant level F01M 11/06, F01M 11/12) [1, 2006.01]	<b>9/00 Lubrication means having pertinent characteristics not provided for in, or of interest apart from, groups F01M 1/00-F01M 7/00</b> [1, 2006.01]
1/20 • • concerning lubricant pressure [1, 2006.01]	9/02 • having means for introducing additives to lubricant [1, 2006.01]
1/22 • • • rendering machines or engines inoperative or idling on pressure failure [1, 2006.01]	9/04 • Use of fuel as lubricant [1, 2006.01]
1/24 • • • • acting on engine fuel system [1, 2006.01]	
1/26 • • • • acting on engine ignition system [1, 2006.01]	

## F01M

- 9/06 • Dip or splash lubrication [1, 2006.01]
- 9/08 • Drip lubrication [1, 2006.01]
- 9/10 • Lubrication of valve gear or auxiliaries [1, 2006.01]
- 9/12 • Non-pressurised lubrication, or non-closed-circuit lubrication, not otherwise provided for [1, 2006.01]
- 11/00 Component parts, details, or accessories, not provided for in, or of interest apart from, groups F01M 1/00-F01M 9/00 [1, 2006.01]**
- 11/02 • Arrangements of lubricant conduits [1, 2006.01]
- 11/03 • Mounting or connecting of lubricant purifying means relative to the machine or engine; Details of lubricant purifying means [3, 2006.01]
- 11/04 • Filling or draining lubricant of or from machines or engines [1, 2006.01]
- 11/06 • Means for keeping lubricant level constant or for accommodating movement or position of machines or engines [1, 2006.01]
- 11/08 • Separating lubricant from air or fuel-air mixture before entry into cylinder [1, 2006.01]
- 11/10 • Indicating devices; Other safety devices [1, 2006.01]
- 11/12 • • concerning lubricant level [1, 2006.01]
- 13/00 Crankcase ventilating or breathing [2, 2006.01]**
- 13/02 • by means of additional source of positive or negative pressure [2, 2006.01]
- 13/04 • having means for purifying air before leaving crankcase, e.g. removing oil [2, 2006.01]
- 13/06 • specially adapted for submersible engines, e.g. of armoured vehicles [2, 2006.01]