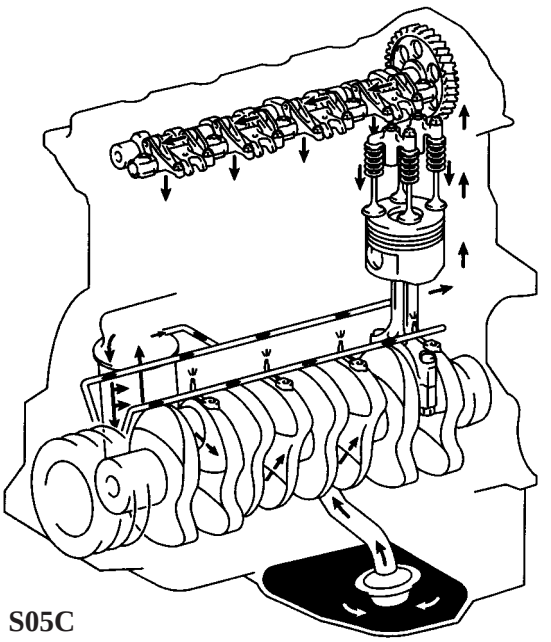
■LUBRICATION SYSTEM

1. General

- The lubrication system is a full forced pressure feed, full-filtration system.
- The engine oil is a low-viscosity oil with low friction loss. Optimal overall engine design, with reduced particulate emissions and a high-efficiency oil filter, made possible longer intervals between maintenance and reduced running costs.
- The oil filter is a full flow and bypass combined type for high output.
- An oil cooler and an oil nozzle for piston cooling were adopted. (S05C-TA, S05C-TB)



S05C

▶ Oil Pump Specifications ◀

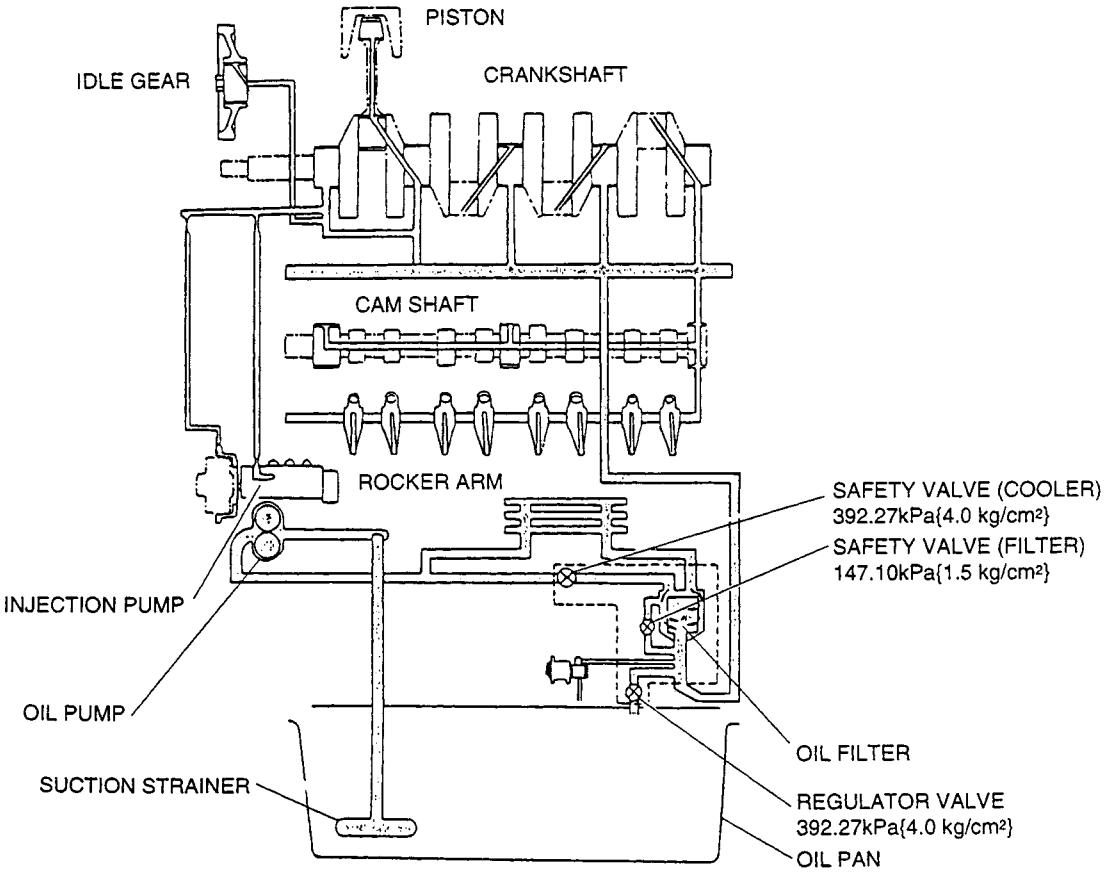
Engine Type	S05C series		W04D-J	
Pump Type	Gear pump		←	
Pumping speed (r/min.)	800	3700	1000	3200
Discharge capacity (L/min.)	24 minimum	110 minimum	18 minimum	63 minimum
Discharge pressure [kPa (kgf/cm^2)]	200 (2) minimum	590 (6) minimum	590 (6) minimum	590 (6) minimum
Relief valve opening pressure [kPa (kgf/cm^2)] (when warm)	—	1648 (16.8) minimum	—	1648 (16.8) minimum

▶ Oil Filter Specifications ◀

Engine Type	S05C series	W04D-J
Filter Type	Filter paper type	←
Filtration area (full flow side) [cm^2 (sq.in.)]	2,900 (449.5)	3,000 (465.0)
Filtration area (bypass side) [cm^2 (sq.in.)]	1,900 (294.5)	—
Filter diameter × height [mm (in.)]	102 × 150 (4.02 × 5.91)	90 × 120 (3.54 × 4.72)

▶ Oil Flow ◀

W04D-J Engine



▶ Oil Flow ◀

S05C-B, S05C-TA, S05C-TB Engines

