

GROUP 12

ENGINE LUBRICATION

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GENERAL INFORMATION

M21200000001USA0000010000

The lubrication system is a full-flow, filter pumping system.

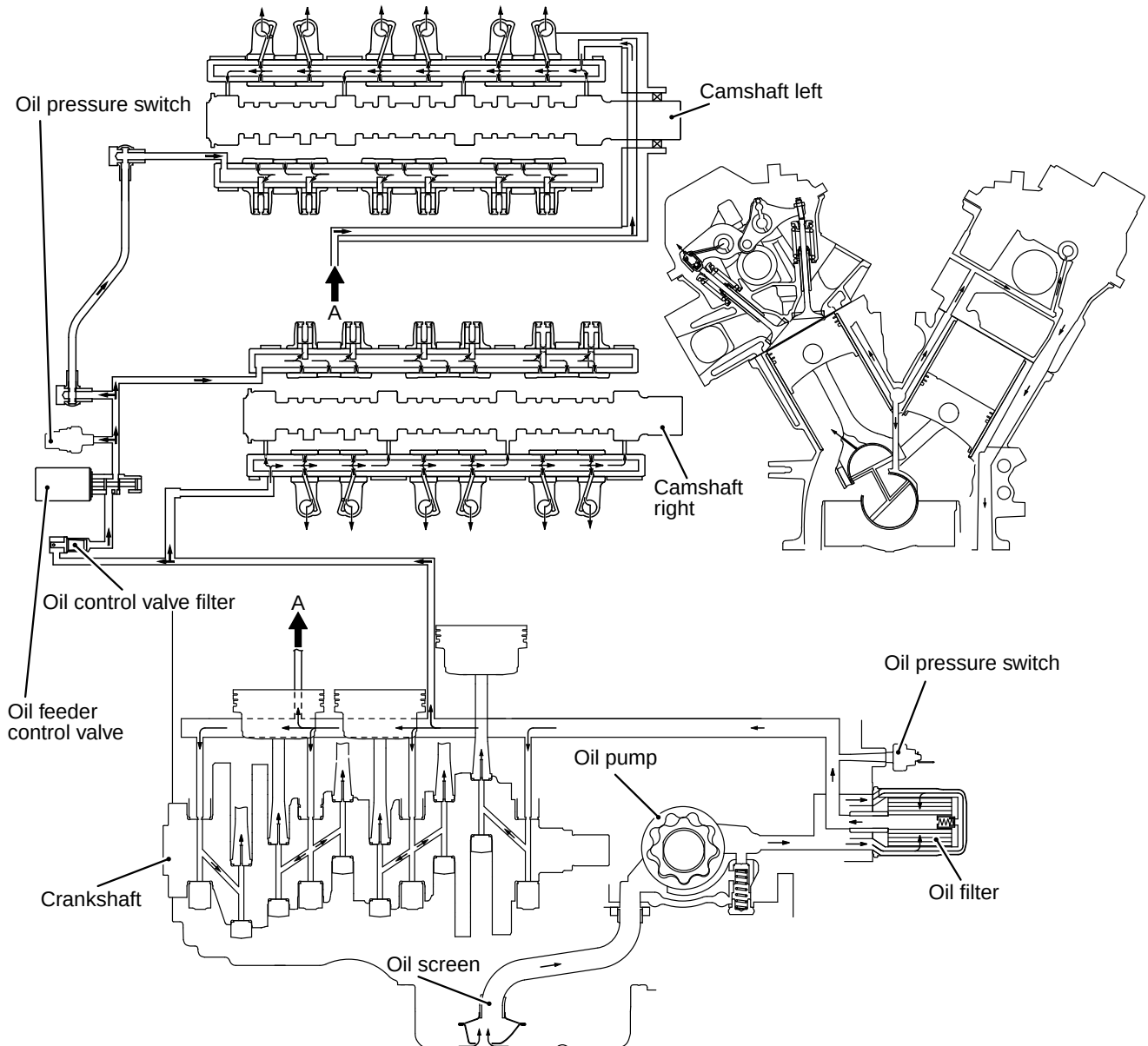
The engine oil that accumulates in the oil pan is drawn and discharged by the oil pump. After its pressure is regulated by the relief valve, the oil passes through the oil filter. Then, it flows from the oil passage in the

cylinder block to the individual crankshaft journals and the cylinder head.

After the oil is pumped to the individual crankshaft journals, it passes through a passage in the crankshaft and is fed to the pins. After the oil is pumped to the cylinder head, it flows to the camshaft journals and the oil feeder control valves.

OIL PASSAGE

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AK602604 AA00

OIL PUMP

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The oil pump is a trochoid type, directly driven by the crankshaft.

On cycloid oil pump, as the inner rotor is rotated by the crankshaft, the outer rotor also rotates. The

resultant change in spatial volumes between the rotors generates pumping action.

Specifically, oil is sucked into the expanding space and is pushed out from the shrinking space.

ENGINE LUBRICATION
OIL FILTER

Item	Specifications
Discharge pressure kPa (6,000 r/min.)	340

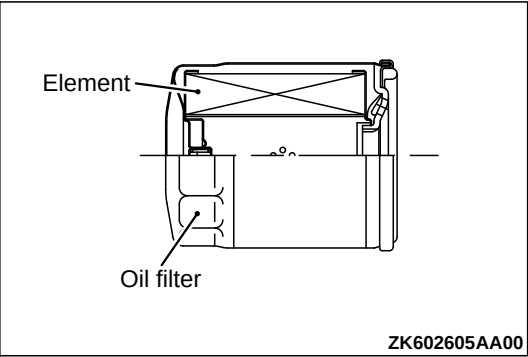
Item	Specifications
Discharge amount L/min (6,000 r/min.)	63

OIL FILTER

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The oil filter is mounted onto the cylinder block.

Item	Specification
Filtering method	Full-flow filtering, Paper element
Filtration area m ²	0.11
Rated flow L/min.	30



OIL PAN

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The oil pan consists of the upper and the lower oil pans. The upper oil pan is made of aluminum and the lower one is made of high damping steel.

The screw holes for removing and installing the upper oil pan are designed to make its removal and installation easy.

