

## 1. Lubrication System

## A: SPECIFICATIONS

## 1. 2200 cc MODEL

Lubrication method				Forced lubrication	
Oil pump	Pump type			Trochoid type	
	Number of teeth	Inner rotor		9	
		Outer rotor		10	
	Outer rotor diameter x thickness			78 x 9 mm (3.07 x 0.35 in)	
	Tip clearance between inner and outer rotor			STANDARD	0.04 — 0.14 mm (0.0016 — 0.0055 in)
				LIMIT	0.18 mm (0.0071 in)
	Side clearance between inner rotor and pump case			STANDARD	0.02 — 0.07 mm (0.0008 — 0.0028 in)
				LIMIT	0.15 mm (0.0059 in)
	Case clearance between outer rotor and pump case			STANDARD	0.10 — 0.175 mm (0.0039 — 0.0069 in)
				LIMIT	0.20 mm (0.0079 in)
	Capacity at 80°C (176°F)	700 rpm	Discharge	- pressure	98 kPa (1.0 kg/cm <sup>2</sup> , 14 psi) or more
- quantity				4.2 ℓ (4.4 US qt, 3.7 Imp qt)/min.	
5,000 rpm		Discharge	- pressure	294 kPa (3.0 kg/cm <sup>2</sup> , 43 psi) or more	
			- quantity	42.0 ℓ (11.10 US gal, 9.24 Imp gal)/min.	
Relief valve operation pressure			490 kPa (5.0 kg/cm <sup>2</sup> , 71 psi)		
Oil filter	Type			Full-flow filter type	
	Filtration area			1,000 cm <sup>2</sup> (155 sq in)	
	By-pass valve opening pressure			157 kPa (1.6 kg/cm <sup>2</sup> , 23 psi)	
	Outer diameter x width			80 x 70 mm (3.15 x 2.76 in)	
	Oil filter to engine thread size			M 20 x 1.5	
Relief valve (on rocker shaft) operation pressure				69 kPa (0.7kg/cm <sup>2</sup> , 10 psi)	
Oil pressure switch	Type			Immersed contact point type	
	Working voltage — wattage			12 V — 3.4 W or less	
	Warning light activation pressure			14.7 kPa (0.15 kg/cm <sup>2</sup> , 2.1 psi)	
	Proof pressure			More than 981 kPa (10 kg/cm <sup>2</sup> , 142 psi)	
Oil pan capacity				4.0 ℓ (4.2 US qt, 3.5 Imp qt)	

**2. 2500 cc MODEL**

Lubrication method				Forced lubrication	
Oil pump	Pump type			Trochoid type	
	Number of teeth	Inner rotor		9	
		Outer rotor		10	
	Outer rotor diameter x thickness			78 x 10 mm (3.07 x 0.39 in)	
	Tip clearance between inner and outer rotor			STANDARD	0.04 — 0.14 mm (0.0016 — 0.0055 in)
				LIMIT	0.18 mm (0.0071 in)
	Side clearance between inner rotor and pump case			STANDARD	0.02 — 0.07 mm (0.0008 — 0.0028 in)
				LIMIT	0.15 mm (0.0059 in)
	Case clearance between outer rotor and pump case			STANDARD	0.10 — 0.175 mm (0.0039 — 0.0069 in)
				LIMIT	0.20 mm (0.0079 in)
Capacity at 80°C (176°F)	600 rpm	Discharge	- pressure	98 kPa (1.0 kg/cm <sup>2</sup> , 14 psi) or more	
			- quantity	4.6 ℓ (4.9 US qt, 4.0 Imp qt)/min.	
	5,000 rpm	Discharge	- pressure	294 kPa (3.0 kg/cm <sup>2</sup> , 43 psi) or more	
			- quantity	47.0 ℓ (12.4 US gal, 10.3 Imp gal)/min.	
Relief valve operation pressure				588 kPa (6.0 kg/cm <sup>2</sup> , 85 psi)	
Oil filter	Type			Full-flow filter type	
	Filtration area			1,000 cm <sup>2</sup> (155 sq in)	
	By-pass valve opening pressure			157 kPa (1.6 kg/cm <sup>2</sup> , 23 psi)	
	Outer diameter x width			80 x 70 mm (3.15 x 2.76 in)	
	Oil filter to engine thread size			M 20 x 1.5	
Oil pressure switch	Type			Immersed contact point type	
	Working voltage — wattage			12 V — 3.4 W or less	
	Warning light activation pressure			14.7 kPa (0.15 kg/cm <sup>2</sup> , 2.1 psi)	
	Proof pressure			More than 981 kPa (10 kg/cm <sup>2</sup> , 142 psi)	
Oil pan capacity				4.5 ℓ (4.8 US qt, 4.0 Imp qt)	