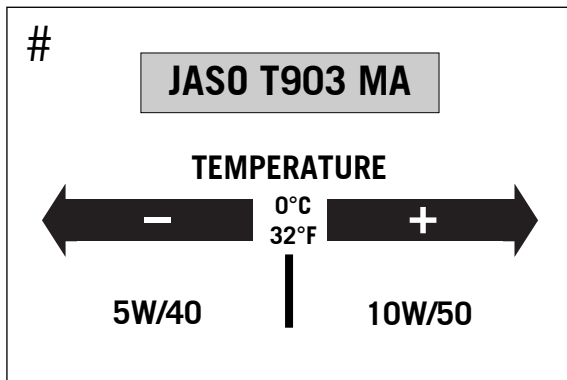


ENGINE	990 LC8
Design	Liquid-cooled, 2-cylinder 4-stroke engine with 75° V arrangement with balancer shaft and electric starter
Displacement	999 cc
Bore / Stroke	101/62.4 mm
Compression ratio	11.5:1
Fuel	unleaded fuel with at least RON 95 (USA: Premium PON 91*) / RON 80 - 94 for other ignition curve)
Valve timing	4 valves controlled over bucket tappet and 2 camshafts, camshaft drive with gears/chain
Valve diameter	Intake: 38 mm Exhaust: 33 mm
Valve clearance, cold	Intake: 0.10 - 0.15 mm Exhaust: 0.25 - 0.30 mm
Crankcase bearing	Friction bearings (2 main bearings / 1 supporting bearing)
Conrod bearing	Friction bearing
Piston pin bearing	Dual-fuel bearing
Piston	Light alloy – forged
Piston rings	1 compression ring, 1 taper face ring, 1 single-piece oil scraper ring with spiral-type expander
Engine lubrication	Dry sump with 2 trochoidal pumps (pressure pump and suction pump)
Engine oil	SAE 10W-50 ( Motorex Power Synt 4T) #
Quantity of engine oil	approx. 3.0 liters during oil/filter change
Primary drive	Straight-toothed spur wheels 35 : 67
Clutch	Multi-disc clutch in oil bath
Transmission	6-speed claw shifted
Gear ratio	1st gear 12:35 2nd gear 15:32 3rd gear 18:30 4th gear 20:27 5th gear 24:27 6th gear 26:27

ENGINE	990 LC8
Mixture preparation	EFI (electronic fuel injection)
Ignition system	breakerless transistorized electronic ignition system with digital ignition advance
Ignition timing	Map-controlled via TPS
Generator	12V 450W at 6000 rpm
Spark plug	NGK DCPR 8 E
Electrode distance	0.8 mm
Cooling system	liquid cooled, permanent circulation of cooling liquid through water pump
Cooling liquid	2.1 liters, 50% antifreeze, 50% distilled water, at least -25° C
Starting aid	0.9 kW electric starter



\*

PON / CLC	RON / ROZ	MON
87	91	83
<b>91 Premium</b>	<b>95</b>	<b>87</b>

PON = Pump Octane Number  
 CLC = Cost of Living Council  
 RON = Research Octane Number  
 ROZ = Research Oktan Zahl  
 MON = Motor Octane Number

## Engine oil

Only use fully synthetic engine oils that meet the JASO MA quality requirements (see information on the can).

KTM recommends Motorex Power Synt 4T in the 10W/50 viscosity (for temperatures over 0°C, 32°F) or 5W/40 (for temperatures under 0°C, 32°F).