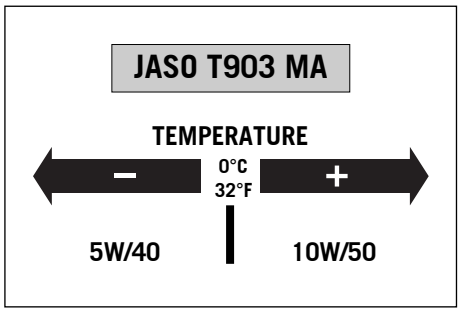
ENGINE	950 LC8
Design	liquid-cooled, 2-cylinder 4-stroke engine with 75° V arrangement with balancer shaft and electric starter
Displacement	942 ccm
Bore / Stroke	100/60 mm
Compression ratio	11.5:1
Fuel	unleaded fuel with at least RON 95 (USA: Premium PON 91*)
Valve timing	4 valves controlled over bucket 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 5W/40, 10W/50 (Motorex Power Synt 4T) #
Quantity of engine oil	approx. 3.0 liters /(0.8 USgal) during oil/filter change
Primary drive	straight-toothed spur wheels 35 : 67
Clutch	multi-disc clutch in oil bath, hydraulically operated
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	950 LC8
Ignition system	breakerless transistorized electronic ignition system with digital ignition advance
Ignition timing	5° BTDC at 1200 rpm
Generator	12V 450W at 6000 rpm
Spark plug	NGK CR 8 EK
Electrode distance	0.7 mm
Cooling system	liquid cooled, permanent circulation of cooling liquid through water pump
Cooling liquid	2.1 liters (0.55 USgal), 50% antifreeze, 50% distilled water, at least –25° C
Starting aid	0.9 kW electric starter



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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).

BASIC CARBURETOR SETTING	
Type of carburetor	CVRD 43
Main jet	155 (front) / 160 (rear)
Main air jet	40
Idling jet	42
Idle air jet	50
Idle air cutoff jet	80
Jet needle	NDFB
Needle position	2nd from top
Mixture control screw open	2 1/4 turns
Starting jet	68

*

PON / CLC	RON / ROZ	MON
87	91	83
91 Premium	**95**	**87**

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