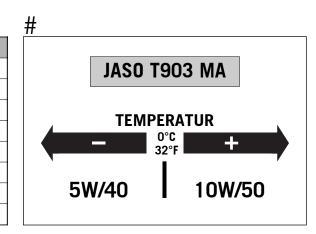
TECHNICAL SPECIFICATIONS – ENGINE »

ENGINE	640 DUKE II
Design	Liquid-cooled single cylinder 4-stroke engine with balancer shaft and electric starter
Displacement	625 ccm
Bore / Stroke	101 / 78 mm
Ratio	11,7 : 1
Fuel	unleaded premium gasoline with a least RON 95 (USA = Premium RON 91)
Valve timing	4 valves over rocker arm and 1 overhead camshaft, camshaft drive through single chain
Camshaft	249/1
Valve diameter	Intake: 36 mm, Exhaust: 32 mm
Valve clearence cold	0.12 - 0.15 mm
Crank shaft bearing	2 cylinder roller bearing
Connecting rod bearing	needle bearing
Top end bearing	bronze bushing
Piston	forged aluminium alloy
Piston rings	1 compression ring, 1 taper face ring, 1 oil scraper ring
Engine lubrication	2 Eaton-Oilpumps
Engine oil	see table #
Quantity of engine oil	2.1 liters including frame
Primary ratio	straight geared spur wheels 31 : 79 teeth
Clutch	multi-disc clutch in oil bath
Transmission	5-speed claw shifted
Gear ratio	1st 14:35
	2nd 15:24
	3rd 18:21
	4th 20:19
	5th 22:18
Ignition system	contactless DC- CDI ignition with digital advanced system type KOKUSAN
Ignition timing	adjustment to max. 38° BTDC at 6000 rpm
Generator	12V 200W
Spark plug	NGK DCPR 8 E
Spark plug gap	0.9 mm
Cooling system	liquid cooled, permanent rotation of cooling liquid through mechanically driven water pump
Cooling liquid	1 liter, 50% antifreeze, 50% destilled water, at least -25° C (-13° F)
Starting equipment	electric starter, kick starter

BASIC CARBURETOR SETTING		
640 DUKE II		
BST40-273		
165		
X-6 689		
45		
6G5		
3 rd		
2.25		



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).