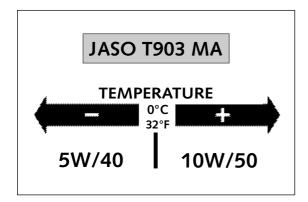
TECHNICAL DATA – ENGINE 640 LC4 ADVENTURE 2004

Туре	640 LC4		
Design	Liquid-cooled single cylinder 4-stroke engine with balancer shaft and electric starter		
Displacement	625 ccm		
Bore / Stroke	101 / 78 mm		
Ratio	11,5 : 1		
Fuel	unleaded premium gasoline with a least RON 95		
Valve timing	4 valves over rocker arm and 1 overhead camshaft, camshaft drive through single chain		
Camshaft	584-V03/1		
Valve diameter	Intake: 36 mm Exhaust: 30 mm		
Valve clearence cold	Intake: 0.15 mm Exhaust: 0.15 mm		
Crank shaft bearing	2 cylinder roller bearing		
Connecting rod bearing	needle bearing		
Top end bearing	bronze bushing		
Piston	forged/cast aluminium alloy		
Piston rings	1 compression ring, 1 taper face ring, 1 oil scraper ring		
Engine lubrication	2 Eaton-Oilpumps		
Quantity of engine oil	see table		
Engine oil	2.1 liters including frame		
Primary ratio	straight geared spur wheels 31 : 79 teeth		
Clutch	multi disc clutch in oil bath, hydraulically operated		
Transmission	5-speed claw shifted		
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 mechanic driven water pump		
Cooling liquid	at least -25° C (-13° F)		
Starting equipment	electric starter, kick starter		

BASIC CARBURETOR SETTING					
	640 LC4 Adventure				
Туре	BST40-266				
Main jet	152,5				
Needle jet	X-6 689				
Idling jet	45				
Jet needle	6G5				
Needle clip pos. f. top	3. from top				
Mixt. adj. screw open	2,25				

GEAR RATIOS							
Primary ratio	Transmission	Original final drive ratio	Available chain drive sprockets	Available final drive sprockets			
31:79	1st gear 14:35 2nd gear 15:24 3rd gear 18:21 4th gear 20:19 5th gear 22:18	15:45 16:42 17:38 17:42	15 t 16 t for chain 17 t 5/8 x 1/4"	38 t 40 t for chain 42 t ⁵ / ₈ x ¹ / ₄ " 45 t 48 t			



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).

TIGHTENING TORQUES - ENGINE 640 LO	C4		
Hexagon nut at primary gear	M20x1,5	Loctite 243 + 170 Nm	(125 ft.lb)
Collar nut flywheel	M16x1,25 left	80° C + 150 Nm	(110 ft.lb)
Hexagon nut for inner clutch hub	M18x1,5	Loctite 243 + 80 Nm	(59ft.lb)
Kickstarter stop screw	M12x1,5	50 Nm	(37ft.lb)
Allan head screw freewheel hub	M6x12/M6x12,5	Loctite 648 + 12 Nm	(9ft.lb)
Allan head screw oil pumps	M6	Loctite 243 + 8 Nm	(6ft.lb)
Hexagon screw camshaft gear	M10	Loctite 243 + 35 Nm	(25ft.lb)
Allan head screw cylinder head top sect.	M6x25/m6x35/M6x	65/M6x70 (8.8) 8 Nm	(6ft.lb)
Allan head screw cylinder head top sect.	M6x50/M6x55 (12.9	9) 15 Nm	(11ft.lb)
Cylinder head screws	M10	50 Nm	(37ft.lb)
Collar nuts at cylinder base	M10	40 Nm	(30ft.lb)
Hexagon screw chain sprocket	M10 (10.9)	Loctite 243 + 60 Nm	(44ft.lb)
Oil drain plug	M22x1,5	30 Nm	(22ft.lb)
Magnetic plug	M12x1,5	20 Nm	(15ft.lb)
Plug bypass valve	M12x1,5	20 Nm	(15ft.lb)
Hollow screws oil lines	M8x1	10 Nm	(7ft.lb)
Hollow screws oil lines	M10x1	15 Nm	(11ft.lb)
Jet screw clutch cover	M8	10 Nm	(7ft.lb)
Screw plug timing-chain tensioner	M12x1,5	20 Nm	(15ft.lb)
Counternuts valve adjusting screws	M7x0,75	16 Nm	(12ft.lb)
Crankshaft locking bolt	M8	20 Nm	(15ft.lb)
Spark plug	M12x1,25	20 Nm	(15ft.lb)
Engine mounting bolt	M8	40 Nm	(30ft.lb)
Engine mounting bolt	M10	70 Nm	(52ft.lb)