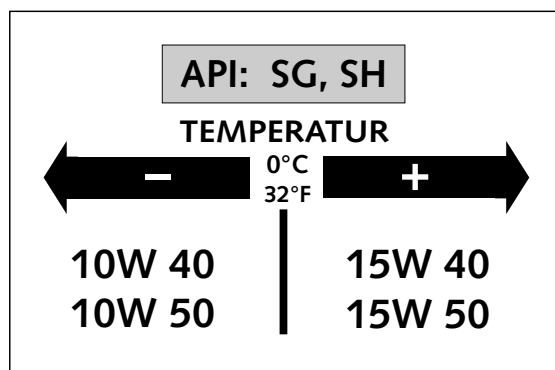


## TECHNICAL DATA – ENGINE 640 LC4, 640 LC4 Supermoto 2003

Engine	<b>640 LC4</b>
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: 32 mm
Valve clearance cold	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	two Eaton-oilpumps
Engine oil	see bellow #
Engine oil quantity	appr. 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
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 4K5
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	1 liter, 40% antifreeze, 60% water, at least -25 ° C (-13 ° F)
Starting equipment	electric starter and kickstarter

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### Engine oil

Only use fully synthetic branded oils (Shell Advance Ultra 4) meeting or surpassing the quality requirements of API classes SG or SH (see specifications on the container).

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**! CAUTION !**

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POOR OIL QUALITY OR MINOR QUANTITY EFFECT EARLY ENGINE-WEAR.

**BASIC CARBURETOR SETTING**

	<b>640 LC4 640 LC4 Supermoto</b>
Type	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