

Lubricating oil change intervals for built-in and marine engines

DEUTZ Compact Engines

Issue 11/2020



		DEUTZ Lubricating oil quality													
		DQC I		DQC II		DQC III		DQC IV		DQC II LA		DQC III LA		DQC IV LA	
		Lubricating oil change intervals in operating hours													
Engine type:	Engine version:	Lubricating oil load													
		normal	high	normal	high	normal	high	normal	high	normal	high	normal	high	normal	high
1008	All engines	125*	125*	125*	125*	125*	125*	125*	125*	125*	125*	125*	125*	125*	125*
1011	Suction engines	1000	500	1000	500	1000	500	1000	500	1000	500	1000	500	1000	500
2011	Turbocharged engines	250*	125*	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*
TD/D 226	Suction engines	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*
413/513	Turbocharged engines	250*	125*	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*
912/913/914	Suction engines	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*
	Turbocharged engines	250*	125*	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*
BF 6L 913 BF 6L 914 C	with 176 kW at 2500 1/min	-	-	-	-	500	250*	500	250*	-	-	500	250*	500	250*
BFM 1012	All engines except	500	250*	500	500	500	500	500	500	500	500	500	500	500	500
	Engines in harvesters, BHKW, power generators**	-	-	-	-	500	500	500	500	-	-	500	500	500	500

* No additional halving in the presence of other lubricating oil stress factors according to TR 0199-99-01217.

** Power generators are to be understood here as those with mains / parallel operation. Emergency power generators are dealt with in Technical Circular 0199-99-01126.

T-3: Lube oil change intervals for built-in and marine engines

DEUTZ is the sole owner of the trademark DQC which is protected by the German Patent and Trademark Office under file number 304 59 318. Furthermore, trademark protection exists in all countries of the European Union, in the USA, Canada and in China. DEUTZ retains all rights and claims regarding the DQC trade mark.

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		DQC I		DQC II		DQC III		DQC IV		DQC II LA		DQC III LA		DQC IV LA	
		Lubricating oil change intervals in operating hours													
Engine type:	Engine version:	Lubricating oil load													
		normal	high	normal	high	normal	high	normal	high	normal	high	normal	high	normal	high
BFM 1013	All engines except:	250*	250*	500	500	500	500	500	500	500	500	500	500	500	500
	Engines in harvesters, CHPs, power generators** BF 4M 1013 FC BF 6M 1013 FC (P ≤ 200 kw), OCV*** closed	-	-	-	-	500	500	500	500	-	-	500	500	500	500
	Engines from Nonroad stage II BF 6M 1013 FC (P ≤ 200 kw), OCV*** open BF 6M 1013 FC, Genset 200 kVA, OCV*** open	-	-	500	500	500	500	500	500	500	500	500	500	500	500
	BF 6M 1013 FC (P > 200 kw), OCV*** open	-	250*	250*	250*	250*	250*	250*	250*	250*	250*	250*	250*	250*	250*
	BF 6M 1013 FC (P > 200 kw), OCV*** closed	-	-	-	-	250*	250*	250*	250*	-	-	250*	250*	250*	250*
	BF 6M 1013 FC, Genset 200 kVA**, OCV*** closed	-	-	-	-	-	-	500	500	-	-	-	-	500	500
BFM 1015	All engines	250*	125*	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*
	1015 C Engines from Nonroad stage II	-	-	500	500	500	500	500	500	500	500	500	500	500	500
	BF 6M 1015 MC ≤ 300 kW, BF 8M 1015 MC ≤ 400 kW	-	-	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*
	1015 CP BF 6M 1015 MC > 300 kW, BF 8M 1015 MC > 400 kW	-	-	-	-	500	250*	500	250*	-	-	500	250*	500	250*
* No additional halving in the presence of other lubricating oil stress factors according to TR 0199-99-01217.															
** Power generators are to be understood here as those with mains / parallel operation. Emergency power generators are dealt with in Technical Circular 0199-99-1126.															
*** OCV = open crankcase ventilation															

T-4: Lube oil change intervals for built-in and marine engines

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		DEUTZ Lubricating oil quality													
		DQC I		DQC II		DQC III		DQC IV		DQC II LA		DQC III LA		DQC IV LA	
		Lubricating oil change intervals in operating hours													
Engine type:	Engine version:	Lubricating oil load													
		normal	high	normal	high	normal	high	normal	high	normal	high	normal	high	normal	high
BFM 2012	All engines except	250*	250*	500	500	500	500	500	500	500	500	500	500	500	500
	BF 4M 2012 C > 95 kW BF 6M 2012 C > 143 kW from non-road stage II for CB*** 101 mm or 98 mm with MV system BF 6M 2012 C > 135 kW from non-road stage II for CB*** 98 mm with mechanical injection system Engines in harvesters, CHPs, power generators**	-	-	-	-	500	500	500	500	-	-	500	500	500	500
	Other engines from non-road stage II	-	-	500	500	500	500	500	500	500	500	500	500	500	500
		250*	250*	500	500	500	500	500	500	500	500	500	500	500	500
BFM 2013	All engines	250*	250*	500	500	500	500	500	500	500	500	500	500	500	500
	Engines from non-road stage II	-	-	500	500	500	500	500	500	500	500	500	500	500	500
	BF 4M 2013 C > 90 kW, BF 6M 2013 C > 120 kW Engines in harvesters, BHKW, power generators**	-	-	-	-	500	500	500	500	-	-	500	500	500	500
2008 / 2009		250*	125*	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*
D 2011		500	250*	1000	500	1000	500	1000	500	1000	500	1000	500	1000	500
TD 2011		500	250*	500	500	500	500	500	500	500	500	500	500	500	500
* No additional halving in the presence of other lubricating oil stress factors according to TR 0199-99-01217.															
** Power generators are to be understood here as those with mains / parallel operation. Emergency power generators are dealt with in Technical Circular 0199-99-1126.															
*** CB = cylinder bore															

T-5: Lube oil change intervals for built-in and marine engines

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		DEUTZ Lubricating oil quality													
		DQC I		DQC II		DQC III		DQC IV		DQC II LA		DQC III LA		DQC IV LA	
		Lubricating oil change intervals in operating hours													
Engine type:	Engine version:	Lubricating oil load													
		normal	high	normal	high	normal	high	normal	high	normal	high	normal	high	normal	high
TD/w 2011 TD/i 2011 TCD/w 2011		250*	125*	500	250*	500	250*	500	250*	500	250*	500	250*	500	250*
TCD 2012 2V	OCV** open	-	-	500	500	500	500	500	500	500	500	500	500	500	500
	OCV** closed	-	-	-	-	500	500	500	500	-	-	500	500	500	500
TCD 2012 4V	OCV** open, all engines except	-	-	500	500	500	500	500	500	500	500	500	500	500	500
	L04 P > 88 kW L04 P > 132 kW OCV** closed	-	-	-	-	500	500	500	500	-	-	500	500	500	500
Natural Fuel Engine TCD 2012 L06 2V/4V	Using rapeseed oil according to DIN 51605	-		250*		250*		250*		250*		250*		250*	
TCD 2013 2V	OCV** open	-	-	500	500	500	500	500	500	500	500	500	500	500	500
	OCV** closed	-	-	-	-	500	500	500	500	-	-	500	500	500	500
TCD 2013 4V	OCV** open / closed	-	-	-	-	500	500	500	500	-	-	500	500	500	500
TCD 2015	OCV** closed	-	-	-	-	500	250*	500	250*	-	-	500	250*	500	250*

* No additional halving in the presence of other lubricating oil stress factors according to TR 0199-99-01217.
** OCV = open crankcase ventilation

T-6: Lube oil change intervals for built-in and marine engines

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		DEUTZ Lubricating oil quality						
		DQC I	DQC II	DQC III	DQC IV	DQC II LA	DQC III LA	DQC IV LA
Engine type:	Engine version:	Lubricating oil change intervals in km						
TD/D 226 BFL 413/513/ 912/913/914	Suction engines	15000	15000	20000	20000	15000	20000	20000
	Turbocharged engines	10000	15000	20000	20000	15000	20000	20000
BFM 1012	Euro I	10000	15000	20000	20000	15000	20000	20000
BFM 1013	Euro II and Euro III except	-	15000	20000	20000	15000	20000	20000
BFM 2012	BF 4M 1013 FC, Euro II, ≤ 14 l lubricating oil content (first filling)	-	-	10000	10000	-	10000	10000
BFM 2013	BF 4M 1013 FC, Euro II, > 14 l lubricating oil capacity (first filling) BF 4M 1013 FC, Euro III	-	-	20000	20000	-	20000	20000
	BF 6M 1013 FC, Euro II, ≤ 19 l lubricating oil content (first filling) OCV* open	-	10000	10000	10000	10000	10000	10000
BFM 1013	BF 6M 1013 FC, Euro II, > 19 l lubricating oil capacity (first filling), OCV* open BF 6M 1013 FC, Euro III, OCV* open	-	20000	20000	20000	20000	20000	20000
	BF 6M 1013 FC, Euro II, ≤ 19 l lubricating oil content (first filling) OCV* closed	-	-	10000	10000	-	10000	10000
	BF 6M 1013 FC, Euro II, > 19 l lubricating oil content (first filling), OCV* closed BF 6M 1013 FC, Euro III, OCV* closed	-	-	20000	20000	-	20000	20000

* OCV = open crankcase ventilation

T-7: Lubricating oil change intervals for vehicle engines (average driving speed 25 km/h)

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		DEUTZ Lubricating oil quality						
		DQC I	DQC II	DQC III	DQC IV	DQC II LA	DQC III LA	DQC IV LA
Engine type:	Engine version:	Lubricating oil change intervals in km						
BFM 2012 C	BF 4M 2012 C > 95 kW from Euro II BF 6M 2012 C > 143 kW for CB* 101 mm or 98 mm with magnetic valve system BF 6M 2012 C > 135 kW for CB* 98 mm with mechanical injection system	-	-	20000	20000	-	20000	20000
BFM 2013 C	BF 4M 2013 C > 90 kW BF 6M 2013 C > 120 kW	-	-	20000	20000	-	20000	20000
BFM 1015	Euro I except	-	15000	20000	20000	15000	20000	20000
	BFM 1015 CP Euro II	-	-	20000	20000	-	20000	20000
TCD 2013 4V	TCD 2013 L04 4V urban traffic	-	25000	45000	45000	25000	45000	45000
	TCD 2013 L06 4V urban traffic	-	30000	50000	50000	30000	50000	50000
	TCD 2013 L06 4V city bus	-	15000	20000	20000	15000	20000	20000
TCD 2015	-	-	-	20000	20000	-	20000	20000

* CB = cylinder bore

T-8: Lubricating oil change intervals for vehicle engines (average driving speed 25 km/h)

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		DEUTZ Lubricating oil quality						
		DQC I	DQC II	DQC III	DQC IV	DQC II LA	DQC III LA	DQC IV LA
Engine type:	Engine version:	Lubricating oil change intervals in km						
TD/D 226 BFL 413/513/ 912/913/914	Suction engines	20000	20000	30000	30000	20000	30000	30000
	Turbocharged engines	15000	20000	30000	30000	20000	30000	30000
BFM 1013	Euro I	15000	20000	30000	30000	20000	30000	30000
	Euro II and Euro III except:	-	20000	30000	30000	20000	30000	30000
	BF 4M 1013 FC Euro II, ≤ 14 l lubricating oil content (first filling)	-	-	15000	15000	-	15000	15000
	BF 4M 1013 FC Euro II, > 14 l lubricating oil capacity (first filling) BF 4M 1013 FC Euro III	-	-	30000	30000	-	30000	30000
	BF 6M 1013 FC Euro II, ≤ 19 l lubricating oil content (first filling) OCV* open	-	15000	15000	15000	15000	15000	15000
	BF 6M 1013 FC Euro II, > 19 l lubricating oil capacity (first filling) OCV* open BF 6M 1013 FC Euro III OCV* open	-	30000	30000	30000	30000	30000	30000
	BF 6M 1013 FC Euro II, ≤ 19 l lubricating oil content (first filling) OCV* closed	-	-	15000	15000	-	15000	15000
	BF 6M 1013 FC Euro II, > 19 l lubricating oil capacity (first filling) OCV* closed BF 6M 1013 FC Euro III, OCV* closed	-	-	30000	30000	-	30000	30000

* OCV = open crankcase ventilation

T-9: Lubricating oil change intervals for vehicle engines (average driving speed 40 km/h)

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		DEUTZ Lubricating oil quality						
		DQC I	DQC II	DQC III	DQC IV	DQC II LA	DQC III LA	DQC IV LA
Engine type:	Engine version:	Lubricating oil change intervals in km						
BFM 2012 C	BF 4M 2012 C > 95 kW, from Euro II BF 6M 2012 C > 143 kW for CB* 101 mm or 98 mm with magnetic valve system BF 6M 2012 C > 135 kW for CB* 98 mm with mechanical injection system	-	-	30000	30000	-	30000	30000
BFM 2013 C	BF 4M 2013 C > 90 kW BF 6M 2013 C > 120 kW	-	-	30000	30000	-	30000	30000
BFM 1015	Euro I except	-	20000	30000	30000	20000	30000	30000
	BFM 1015 CP Euro II	-	-	30000	30000	-	30000	30000
TCD 2013 4V	TCD 2013 L04 4V	-	40000	60000	60000	40000	60000	60000
	TCD 2013 L06 4V	-	50000	70000	70000	50000	70000	70000
	TCD 2013 L06 4V Regional bus	-	20000	30000	30000	20000	30000	30000
TCD 2015		-	-	30000	30000	-	30000	30000

* CB = cylinder bore

T-10: Lubricating oil change intervals for vehicle engines (average driving speed 40 km/h)

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		DEUTZ Lubricating oil quality						
		DQC I	DQC II	DQC III	DQC IV	DQC II LA	DQC III LA	DQC IV LA
Engine type:	Engine version:	Lubricating oil change intervals in km						
TD/D 226 BFL 413/513/ 912/913/914	Suction engines	30000	30000	40000	40000	30000	40000	40000
	Turbocharged engines	20000	30000	40000	40000	30000	40000	40000
BFM 1013	Euro I	20000	30000	40000	40000	30000	40000	40000
	Euro II and Euro III except	-	30000	40000	40000	30000	40000	40000
	BF 4M 1013 FC Euro II, ≤ 14 l lubricating oil content (first filling)	-	-	20000	20000	-	20000	20000
	BF 4M 1013 FC Euro II, > 14 l lubricating oil capacity (first filling) BF 4M 1013 FC Euro III	-	-	40000	40000	-	40000	40000
	BF 6M 1013 FC Euro II, > 19 l lubricating oil capacity (first filling) OCV* closed BF6M 1013 FC Euro III, OCV* closed	-	-	40000	40000	-	40000	40000
	BF 6M 1013 FC Euro II, ≤ 19 l lubricating oil content (first filling) OCV* open	-	20000	20000	20000	20000	20000	20000
	BF 6M 1013 FC Euro II, > 19 l lubricating oil capacity (first filling) OCV* open BF 6M 1013 FC Euro III OCV* open	-	40000	40000	40000	40000	40000	40000
	BF 6M 1013 FC Euro II, ≤ 19 l lubricating oil content (first filling) OCV* closed	-	-	20000	20000	-	20000	20000

* OCV = open crankcase ventilation

T-11: Lubricating oil change intervals for vehicle engines (average driving speed 60 km/h)

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		DEUTZ Lubricating oil quality						
		DQC I	DQC II	DQC III	DQC IV	DQC II LA	DQC III LA	DQC IV LA
Engine type:	Engine version:	Lubricating oil change intervals in km						
BFM 2012 C	BF 4M 2012 C > 95 kW, from Euro II BF 6M 2012 C > 143 kW for CB* 101 mm or 98 mm with magnetic valve system BF 6M 2012 C > 135 kW for CB* 98 mm with mechanical injection system	-	-	40000	40000	-	40000	40000
BFM 2013 C	BF 4M 2013 C > 90 kW BF 6M 2013 C > 120 kW	-	-	40000	40000	-	40000	40000
BFM 1015	Euro I except	-	30000	40000	40000	30000	40000	40000
	BFM 1015 CP Euro II	-	-	60000	60000	-	60000	60000
TCD 2013 4V	TCD 2013 L04 4V	-	60000	80000	80000	60000	80000	80000
	TCD 2013 L06 4V	-	75000	100000	100000	75000	100000	100000
	TCD 2013 L06 4V intercity bus	-	30000	50000	50000	30000	50000	50000
TCD 2015	-	-	-	60000	60000	-	60000	60000

* CB = cylinder bore

T-12: Lubricating oil change intervals for vehicle engines (average driving speed 60 km/h)

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