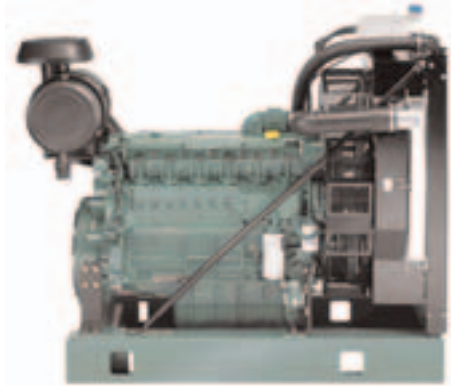
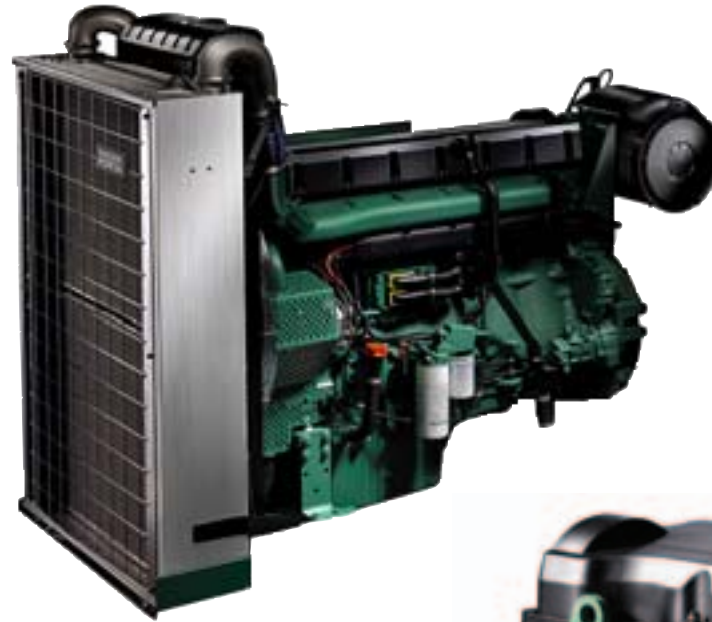


**INDUSTRIAL
OFF-ROAD AND
POWER GENERATION**

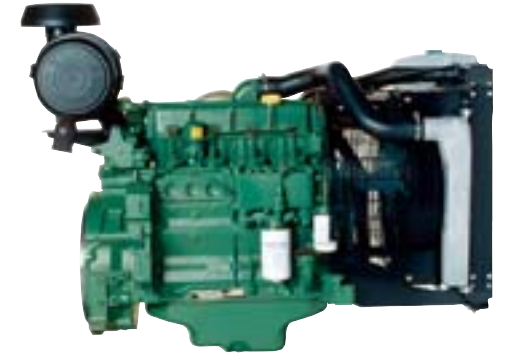
ENGINE RANGE



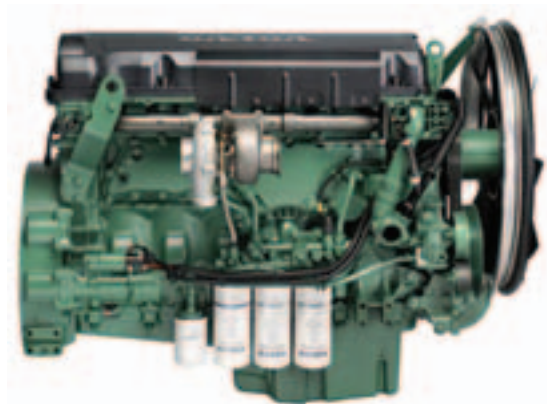
NEW! TAD722GE



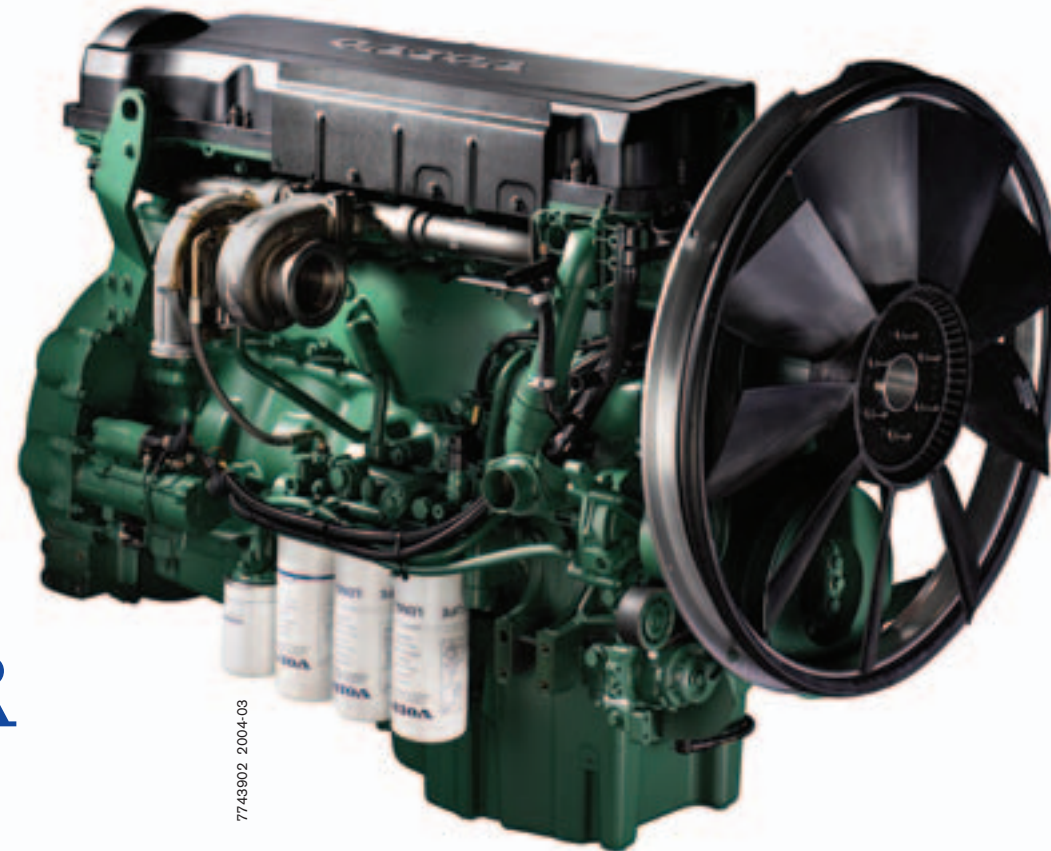
TAD520GE



NEW! TAD1640VE



NEW! TAD940VE



7743902 2004-03

**VOLVO
PENTA**

AB Volvo Penta
SE-405 08 Göteborg, Sweden
www.volvopenta.com

Industrial engines for off-road and stationary applications - Stage 1

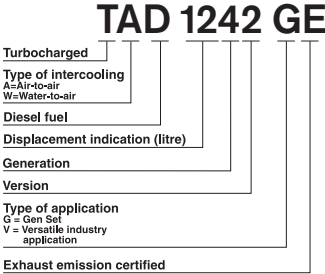
Engine	Type of Power ²⁾	kW	Rated power hp	rpm	Peak torque Nm rpm		Displ. litres	Length mm	Width mm	Height mm	Dry weight kg	Emissions EU/EPA Stage
TD520VE	ICFN	80	109	1 800	416	1 500	4,8	1 626	885	1 476	725 ³⁾	1
TD640VE	IFN	129	175	2 400	690	1 400	5,5	1 218	609	1 103	655	1
TWD630VE	IFN	140	190	2 500	680	1 500	5,5	1 202	612	1 095	655	1
TD730VE	IFN	150	204	2 400	760	1 400	6,7	1 265	641	1 120	760	1
TWD710V	ICFN	168	228	2 200	860	1 400	6,7	1 265	641	1 167	770	–
TWD731VE	IFN	175	238	2 400	949	1 300	6,7	1 265	641	1 130	770	1
TD720VE	ICFN	122	166	1 800	701	1 500	7,2	1 626	885	1 582	920 ³⁾	1
TWD740VE	IFN	175	235	2 400	1 055	1 200	7,3	1 320	753	995	785	1
TWD740VE	IFN	203	276	2 200	1 200	1 300	7,3	1 320	753	995	785	1
TWD1630V	ICFN	383	520	1 800	2 332	1 200	16,1	1 677	735	1 450	1 405	–
TAD1630V	ICFN	415	565	1 800	2 665	1 200	16,1	2 154	1 089 ¹⁾	1 600	1 515	–

Stage 2

Engine	Type of Power ²⁾	kW	Rated power hp	rpm	Peak torque Nm rpm		Displ. litres	Length mm	Width mm	Height mm	Dry weight kg	Emissions EU/EPA Stage
TD420VE	IFN	75	102	2 500	390	1 500	4,0	815	610	742	330	2
TAD420VE	IFN	93–103	126–140	2 500	493	1 500	4,0	815	610	742	330	2
TAD520VE	IFN	107–118	146–160	2 300	577	1 400	4,8	896	630	975	430	2
TAD620VE	IFN	140–155	190–211	2 500	700	1 500	5,7	1 034	610	906	510	2
TAD720VE	IFN	157–174	214–237	2 300	854	1 400	7,2	1 172	630	975	680	2
TAD721VE	IFN	165–195	224–265	2 300	954	1 400	7,2	1 172	630	975	680	2
TAD722VE	IFN	180–220	245–299	2 300	1 050	1 400	7,2	1 172	630	975	680	2
NEW! TAD940VE	IFN	190	258	2 100	1 251	1 000	9,4	1 312	902	1 105	1 015	2
NEW! TAD941VE	IFN	220	299	2 100	1 401	1 200	9,4	1 312	902	1 105	1 015	2
NEW! TAD942VE	IFN	250	340	2 100	1 617	1 400	9,4	1 312	902	1 105	1 015	2
NEW! TAD943VE	IFN	280	380	1 900	1 719	1 400	9,4	1 312	902	1 105	1 015	2
TWD1240VE	ICFN	256–310	348–422	2 100	1 750	1 200	12,1	1 516	950	1 243	1 270	2
TAD1241VE	ICFN	343	466	1 800	2 180	1 200	12,1	1 516	950	1 243	1 220	2
TAD1242VE	ICFN	383	520	1 800	2 276	1 200	12,1	1 516	950	1 243	1 220	2
NEW! TAD1641VE	ICFN	420	571	1 800	2 700	1 200	16,1	2 071 ¹⁾	1 100 ¹⁾	1 750 ¹⁾	1 440	2
NEW! TAD1642VE	ICFN	494	672	1 800	3 150	1 200	16,1	2 071 ¹⁾	1 100 ¹⁾	1 750 ¹⁾	1 440	2

Engine performance acc. To ISO3046, without fan.
1) Engines include Intercooler.
2) For power definitions, see technical sales handbook.
3) Weight for complete Power Pac.

EU/EPA Emissions		
Power	Stage/ Tier	Legislation demanded from
75–560 kW	2	2004
130–560 kW	3	2006
75–130 kW	3	2007



Generating set engines 1500 r/min, 50 Hz

Engine	bhp	Prime power		kVA	bhp	Maximum kWm	Standby power kWe	kVA	Generator efficiency (%)	Emissions TA-luft	Emissions EPA / CARB Tier
TD520GE	101	75	68	85	111	83	75	94	91	1	1
TAD520GE	118	88	80	100	128	96	87	109	91	1	1
TD720GE	152	113	104	130	166	124	114	142	92	1	1
TAD720GE	177	132	121	152	194	145	133	167	92	1	1
TWD710G	212	158	145	182	240	179	165	206	92	1	–
NEW! TAD721GE	217	162	149	186	240	179	165	206	92	1	2
TWD740GE	243	181	167	208	267	199	183	229	92	1	1
NEW! TAD722GE	240	179	165	206	264	197	181	227	92	1	2
TAD740GE	295	220	202	253	325	242	223	278	92	1	1
NEW! TAD940GE	323	241	222	277	355	265	244	305	92	1	2
NEW! TAD941GE	379	283	260	325	417	311	286	358	92	1	2
TAD1240GE	380	283	263	329	417	311	289	362	93	1/2	2
TAD1241GE	433	323	300	375	475	354	329	412	93	1/2	2
TWD1630G	472	352	327	409	524	391	364	455	93	1	–
TAD1242GE	472	352	327	409	519	387	360	450	93	1/2	2
TAD1630GE	536	400	376	470	590	440	414	517	94	1	1
NEW! TAD1640GE	527	393	369	462	578	431	405	506	94	1	2
TAD1631GE	583	435	409	511	641	478	449	562	94	1	1
NEW! TAD1641GE	581	433	407	509	638	476	447	559	94	1	2
NEW! TAD1642GE	650	485	456	570	719	536	504	630	94	1	2

Generating set engines 1800 r/min, 60 Hz

Engine	bhp	Prime power		kVA	bhp	Maximum kWm	Standby power kWe	kVA	Generator efficiency (%)	Emissions TA-luft	Emissions EPA / CARB Tier
TD520GE	103	77	70	88	114	85	77	96	91	1	1
TAD520GE	123	92	84	105	136	101	92	115	91	1	2
TD720GE	154	115	106	132	170	127	117	146	92	1	1
TAD720GE	187	140	129	161	206	154	141	177	92	1	2
TWD710G	223	166	153	191	263	196	180	225	92	1	–
NEW! TAD721GE	240	179	165	206	264	197	181	227	92	1	2
TWD740GE	278	207	190	238	306	228	210	262	92	1	1
NEW! TAD722GE	264	197	181	227	292	218	201	251	92	1	2
TAD741GE	278	207	190	238	306	228	210	262	92	1	2
TAD740GE	306	228	210	262	337	251	231	289	92	1	1
NEW! TAD940GE	345	257	239	299	362	270	251	314	93	1	2
NEW! TAD941GE	398	297	276	345	433	323	300	375	93	1	2
TAD1240GE	402	300	279	349	443	330	307	384	93	1/2	2
TAD1241GE	461	344	320	400	519	387	360	450	93	1/2	2
TWD1630G	508	379	352	441	581	433	403	503	93	1	–
TAD1242GE	524	391	364	455	577	430	400	500	93	1/2	2
TAD1630GE	587	438	412	515	646	482	453	566	94	1	1
NEW! TAD1640GE	579	432	406	508	644	480	451	564	94	1	2
TAD1631GE	661	493	463	579	748	558	525	656	94	1	1
NEW! TAD1641GE	657	490	461	576	739	551	518	647	94	1	2
NEW! TAD1642GE	705	526	494	618	784	585	550	687	94	1	2

Net engine performance acc. To ISO3046, BS5514, DIN6271
and in general SAEJ1349 net power
bhp = brake horse power, net with fan = 1.341 kWm
kWm = kiloWatt mechanical, net with fan
kWe = kiloWatt electrical = kWm gen. eff.
kVA = kiloVoltAmpere calculations based on a 0.8 power factor = kWe / 0.8

Emissions
Fulfills TA-luft exhaust emission regulation. TWD710G require special adjustment.
Fulfils EPA/CARB exhaust emission regulation Tier 1 or 2