

This is the list of the most common engine arrangements that CAT put together. If your engine you are looking for is not found on this list please contact the Reman helpline at 1-888-887-3626. Provide them with your engine serial number and arrangement number. If they are unable to provide you with a engine that will work, please contact Bruce Berry at 207-885-8014 or Chris Cipperley at 518-728-7583 to see if anything can be made to work with minimal changes.



# T E C H N I C A L   S U P P L E M E N T

## Engines

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
REMANUFACTURED TRUCK ENGINES SPECIFICATIONS									
3116 Truck	0R3325	170	400	2600	Rear	4P2835	2BK07272		SEHS9778 2BK
3116 Truck	0R3326	185	480	2600	Rear	4P2821	2BK08092		SEHS9778 2BK
3116 Truck	0R3327	215	590	2600	Rear	4P2829	2BK07828		SEHS9778 2BK
3116 Truck	0R3380	185	460	2600	Rear	4P2836	2BK12498		SEHS9778 2BK
3116 Truck	0R3533	250	620	2600	Rear	6I2166	2BK22688		SEHS9778 2BK
3116 Truck	0R9286	170	410	2600	Rear	1067872	9GK70151		9GK
3116 Truck	0R9287	185	N/A	2600	Rear	1067875	9GK70096		9GK
3116 Truck	0R9288	185	540	2600	Rear	1067877	9GK70095		9GK

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
3116 Truck	0R9289	200	520	2600	Rear	1067879	9GK70156		9GK
3116 Truck	0R9290	215	610	2600	Rear	1047407	9GK70150		9GK
3116 Truck	0R9295	250	640	2600	Rear	1067881	9GK63914		9GK
3116 Truck	0R9297	275	770	2450	Rear	1061554	9GK63914		9GK
3116 Truck	10R3079	240	650	2600	Front	4P5076	2BK19330		2BK
3116 Truck	10R3080	210	590	2600	Front	1209668	9YN04462		9YN
3116 Truck	10R4476	160	480	2200	Rear		2MR03355	1142905	Repower Ottawa Yard Tractor
3126 HEUI Truck	0R8888	300 (275-300)	850 (800-860)	2200	Front	1268641	1WM18136		1WM 2-Valve Cylinder Head
3126 HEUI Truck	10R1784	210 (175-210)	600 (420-600)	2200	Front	1523252	1WM25788		1WM 2-Valve Cylinder Head
3126 HEUI Truck	10R3081	210 (175-210)	600 (420-600)	2200	Front	1375452	1WM19475		Bus 2-Valve Cylinder Head
3126 HEUI Truck	10R7251	350	820	2600	Rear	1301500	1BW04209		Military 2-Valve Cylinder Head

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
3126B Truck	0R1047	190 (175-190)	520 (420-520)	2300	Front	1541064	7AS66992		7AS
3126B Truck	10R7252	210	600 (520-605)	2200	Front	1529924	7AS31284		7AS
3126B Truck	0R1048	230	660	2200	Front	1541067	7AS76800		7AS
3126B Truck	0R9961	300 (250-300)	770 (660-860)	2200	Front	1541061	7AS76800		7AS
3126B Truck	0R4859	210	520 (520-605)	2200	Front	1771178	8YL2056		8YL
3126B Truck	0R4879	207 (175-190)	530 (420-520)	2300	Front	1771232	8YL20535		8YL Auto XMSN
3126B Truck	0R4855	300 (250-300)	770 (660-860)	2300	Front	1771182	8YL22528		8YL
3126E Truck	20R0014	210	580 (520-605)	2200	Rear	1886756	9SZ42968		9SZ 8YL CKM
3126E Truck	20R0015	300 (275-300)	800 (800-860)	2200	Rear	1842898	9SZ43108		9SZ 8YL CKM
3126E Truck	20R0016	330	860	2400	Rear	2281263	HEP45758		Emergency/RV HEP

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
3126E Truck	20R0017	210	600 (520-605)	2200	Front	2252174	HEP44985		HEP
C7 Truck	10R8774	210 (190-210)	520 (520-610)	2200	Front/Deep	2589208	WAX78591		KAL SAP WAX
C7 Truck	10R8775	330	860 (800-860)	2395	Rear/Shallow	2519075	WAX78207		KAL SAP WAX
C7 Truck	10R8776	190 (190-210)	520 (520-600)	2200	Rear/Deep	2359215	KAL80106		KAL SAP WAX
C7 Truck	10R8777	210 (190-210)	520 (520-600)	2200	Front/Shallow	2411278	WAX78269		KAL SAP WAX
C7 Truck	10R8778	210 (190-210)	520 (520-600)	2200	Front/Deep	2427655	WAX78402		KAL SAP WAX
C7 Truck	10R8809	210 (190-210)	520 (520-600)	2200	Rear/Shallow	2535719	WAX78440		KAL SAP WAX
C7 Truck	10R8810	190 (190-210)	520 (520-600)	2200	Rear/Deep	2645479	WAX78519		KAL SAP WAX

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
C7 Truck	10R8811	230 (230-250)	540 (540-660)	2300	Front/ Shallow	2411294	WAX78594		KAL SAP WAX
C7 Truck	10R8812	230 (230-250)	660 (540-660)	2200	Front/ Deep	2456973	WAX78563		KAL SAP WAX
C7 Truck	20R3664	275 (250-300)	780 (800-860)	2200	Front	2404291	KAL84079		KAL SAP WAX Bus
C7 Truck	10R8813	300 (250-330)	860 (800-860)	2200	Front/ Deep	2394754	WAX76043		KAL SAP WAX
3176B Truck	0R9120	350	1300	1800	Front	1421995	9CK32738		REHS0400 REHS1034 9CK
C-10 Truck	10R1351	305 (305-335)	1150	1800	Front	1699488	3CS19334		3CS
C-10 Truck	0R9665	370	1350	1800	Front	1602310	8YS04167		8YS

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
C-12 Truck	10R1410	430 (335-455)	1650	1800	Front	1699212	2KS50367		2KS
C-12 Truck	10R1646	430 (335-455)	1650	1800	Front	1699212	2KS50367		2KS w/Compressor, Eng Brake, Flywheel, Engine Support
C-12 Truck	0R9683	430 (335-455)	1650	1800	Front	1602312	9NS11742		9NS
C-12 Truck	10R7692	430 (335-455)	1550	1800	Front	2308536	MBL18446		MBL
C-12 Truck	10R8736	395	1450	1800	Front	2042392	9NZ18564		For Australia 8YF
C13 Truck	10R8830	430 (335-430)	1650	1800	Rear	2427872	KCB93109		KCB (HIGH MOUNT TURBO)
C13 Truck	10R8831	430 (335-430)	1650	1800	Front/Deep	2640811	KCB83688		KCB (HIGH MOUNT TURBO)
C13 Truck	10R8832	335 (335-430)	1550	1800	Front	2535885	KCB92179		KCB (HIGH MOUNT TURBO)

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
C13 Truck	10R8833	430 (335-430)	1650	1800	Front/Deep	2589318	KCB65653		KCB (LOW MOUNT TURBO)
C13 Truck	10R8834	430 (335-430)	1650	1800	Front/Deep	2675964	KCB60158		KCB (MID MOUNT TURBO)
3406B (ATAAC)	0R2425	425	1390	2100	Rear	9Y2444	4MG03600		4MG SEHS8607**
3406B (JWAC)	0R1284	400	1330	2100	Rear	4W3608	7FB97954		7FB SEHS8607**
3406B (JWAC)	0R1285	400	1330	2100	Rear	4W3773	7FB99843		7FB SEHS8606***
3406B (JWAC)	0R1286 (CA)	400	1300	2100	Rear	4W2818	7FB54161		7FB SEHS8607**
3406C (ATAAC)	0R4697	425	1580	2000	Rear	4P1294	3ZJ39132		3ZJ
3406C (ATAAC)	0R4696	425	1580	2000	Front	4P1295	3ZJ42949		3ZJ
3406C (ATAAC)	0R4698	350	1320	1800	Front	4P1286	3ZJ19762		3ZJ
3406E Truck	0R8520	435 (375/435MT)	1550 (1450/1550)	1800	Front	1313668	5EK99167		5EK 6TS

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
3406E Truck	0R8325	375 (375-455)	1450	1800	Rear	1414251	5EK93390		5EK 6TS
3406E Truck	0R8699	550 (475-550)	1920	1800	Front	1326027	6TS02940		5EK 6TS
3406E Truck	0R8700	550 (475-550)	1920	1800	Rear	1326084	6TS02940		5EK 6TS
3406E Truck	0R7435	475 (475-550)	1650	1800	Rear	1326024	6TS05316		*MAO* 5EK 6TS
3406E Truck	10R7248	475 (435-550)	1750	1800	Rear	1553226	1LW33251		1LW Pin ECM) (40
3406E Truck	20R6605	475 (435-550)	1750	1800	Rear	1707808	2WS42778		2WS Pin ECM) (70
C-15 Truck	10R1972	475 (435-550)	1630	1800	Front	1861874	6NZ52907		6NZ 9NZ
C-15 Truck	10R1322	475 (435-550)	1650	1800	Rear	1802191	6NZ88636		6NZ 9NZ
C-15 Truck	10R1360	475 (435-550)	1650	1800	Rear	1802191	6NZ88636		6NZ 9NZ UTN Crank
C-15 Truck	10R2524	475 (435-550)	1650	1800	Rear	1802082	6NZ52907		6NZ 9NZ



Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
C-15 Truck	10R6093	475 (435-550)	1650	1800	Rear	1802082	6NZ72726		6NZ 9NZ W/ PRIMING PUMP
C-15 Truck	10R2730	475 (435-550)	1650	1800	Rear	1802082	6NZ46719		6NZ 6I-3939 Flywheel Housing
C-15 Truck	10R1637	475 (435-550)	1650	1800	Rear	1802082	6NZ46719		*MAO* 6NZ 9NZ 160-6262 Flywheel Housing
C-15 Truck	10R1638	475 (435-550)	1650	1800	Front	1802084	6NZ46719		*MAO* 6NZ 9NZ
C-15 Truck	20R5084	475	1750	1800	Rear	2444600	9NZ18564		6NZ 9NZ For Australia
C-15 Truck	10R2957	475 (435-550)	1650	1800	Front	2549507	9NZ09339		*MAO* 6NZ 9NZ
C-15 Truck	10R9846	475 (435-525)	1750	1800	Rear	2301666	MBN30162		MBN (Bridge 10/02)
C15 ACERT Truck	10R8767	475 (435-550)	1850	1800	Rear	2615245	MXS98787		BXS MXS NXS (HIGH MOUNT TURBO)

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
C15 ACERT Truck	10R8801	435 (435-550)	1650	1800	Front	2602884	NXS26010		BXS MXS NXS (LOW MOUNT TURBO)
C15 ACERT Truck	10R8802	625 (600-625)	2050	1800	Rear	2615406	NXS12325		BXS MXS NXS (HIGH MOUNT TURBO)
C15 ACERT Truck	10R8803	435 (435-550)	1650	1800	Rear	2615260	NXS26290		BXS MXS NXS (MID MOUNT TURBO)

REMANUFACTURED MACHINE/INDUSTRIAL ENGINES SPECIFICATIONS

3116	20R1747	150	490	2000	Front	1468338	GRK01394		120H
3116	10R7261	130	400	2000	Center	1183600	4TF91866		M318X
3116	10R7262	130	500	2000	Center	1207719	4TF91614		320B
3116	20R4593	155	530	1950	Center	1204815	GRK02090		322B Tier 1
3116	20R1734	180	540	2000	Center	1155938	GRK01396		325B Tier 1

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
3116	0R9696^^	185	560	2000	Center	1313803	4TF49748		325B Tier 1
3116	20R1739	175	570	2300	Front	1187663	GRK01389		613C II Tier 1
3116	10R7258	120	410	2200	Front	7C9097	4TF91845	1017528 1017527	928F
3116	0R8760	180	540	2200	Front	1129039	98Z04415		950F II
3116	10R7259	125	430	2300	Front	1180904	4TF91905		928G IT28G Wet Clutch
3116	10R7263	125	440	2300	Front	2040340	4TF92037		928G IT28G
3116	10R7260	120	410	2200	Front	1338830	4TF91751	1338829	938F
3116 g	0R4426^^	170	510	2200	Front	1061757	4TF11926	7E0576 4P9992 1005839 1007024 1028822 1029890 1061756 1061758 1081743 1109010	950F SEHS9802
3116	0R8760	180	540	2200	Front	1129039	98Z04415		950F II w/ AIH
3116	20R2541	180	530	2200	Front	1167958	GR800249	1167959	950F II

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
3116	20R1741	120	410	2200	Center	1471753	GRK01355		953C
3116	20R1740	175	520	2200	Center	1271023	GRK01369		963C
3116	20R1745	145	440	2200	Center	1117718	GRK01252	1117717	CS/CP-500 Compactor
3116	20R4594	150	490	2200	Front	1430037	GRK02141		CS/CP-500 Compactor Tier 1
3116	20R2537	120	390	2100	Front	1144508	GR800221		D5M
3116	20R1738	155	490	2200	Front	1074935	GRK01352		D6M
3116 (JWAC)	10R6150	195	570	2200	Center	PA8839	5EN03217		Industrial Tamrock Blasthole Drill
3116	10R6151	130	390	2200	Front	PA6799	5EN03372		Industrial
3116	10R5709	210	590	2400	Center	PA8848	5EN03362	1142912	Industrial
3116	20R2504	350	720	2800	Center	PA8790	4KG09870	614187	Marine Aftercooler Right Hand Service
3116	20R2505	300	650	2800		PA3483	4KG09866	7C6629	Marine Aftercooler Right Hand Service

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
3126	20R2532	165	560	2200	Front	1383673	HRL02038		938G Tier 1
3126	20R2534	165	580	2200	Front	1356437	HRL02034		938G Tier 1
3126	20R4721	160	610	2200	Front	1973542	HRL02056	1938219	938G Tier 1 w/o Air Intake Heater
3126	20R2533	205	650	2200	Front	1168671	HRL02031		962G Tier 1
3126	20R2500	350	810	2800	Center	PA7191	1ZJ04128	1790782	Marine Aftercooler Right Hand Service
3126	20R2501	420	970	2800	Center	PA7463	1ZJ04057	1852241	Marine Aftercooler Right Hand Service
3126	20R2502	420	860	2800	Center	PA5744	8NM04238	1220083	Marine Aftercooler Right Hand Service
3126B	20R4720	180	620	1800	Front	2139266	TX600105	2323135	322C II Tier 2
3126 B	20R1904	200	700	1800	Front	2014205	5GG13499	1593458	325C Tier 2
3126 B	20R1901	190	650	2200	Rear	1483017	55K13424		528B Tier 1

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
3126 B	20R1902	175	680	2200	Front	1985914	5GG13504		938G II Tier2 May require use of 2755400 Adapter and 1W2431 Clamp
3126 B	20R1900	205	710	2200	Rear	1168670	HR800212		950G Tier 1
3126 B	20R1903	205	730	2200	Front	2160848	5GG13508	2919170	950G II Tier 2
3126 B	20R2536	130	460	2000	Center	1717613	BMA39224		953C Tier 2
3126 B	20R2535	225	730	2200	Front	2160850	5GG13514		962G II Tier 2
3126 B	20R3829	175	560	2000	Front	1699096	BMA39183		963 C Tier2
3126 B	20R1905	170	630	2200	Front	1914479	BMA39223	1882033	D5N D6N Tier 2
C7	20R1711	145	580	2000	Rear	3950485	KHX60762	3259707	120K Tier 3
C7	10R9497	180	660	1800	Front	3309478	TX700141		140G 3 Repower Tier
C7	20R1710	220	800	2000	Rear	2789732	KHX46380	3493572	140M 3 Tier

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
C7	20R1712	205	810	2000	Rear	3950484	KHX47524	3120255	140 160K Tier 3
C7	20R1691	195	690	1800	Front	4233915	KHX46802	4351298 4351293 4351292 4233921 4233920 4233917 4233916 3878492 3878491 3878489 3878488 3878484 3878482 3662160 3493581 3493573 2900758 2900756 2900755 2719260 2632004 2702768 2702767 2401859 2358135	325D Tier 3 Low HP
C7	20R2528	215	760	1800	Front	4351302	KHX54803	4351295 4263762 4233925 4233918 3878487 3878485 3878481 2900754 2743836 2649647 2249842 2702769	325D Tier 3 High Hp
C7	20R4098	205	720	1800	Front	4213387	KHX59114	4213388 3673229 3673230 3094421	525C Tier 3

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
C7	20R1709	195	710	1800	Front	3389076	KHX47526	3903311 3389078 2845778 2845777 2351422	950H Tier 3 962H Tier 3
C7	20R1692	225	650	2200	Center	2237844	KHX45726		BG-260D AP-1000D BG-2455D AP-1005D BG-2455D Tier 3
C7	20R2486	225 (197-275)	740	2200	Front	PQ0561	JTF12507	2707235	Industrial Tier 3 "B" Rating Front Exhaust
C7	20R2487	225 (197-275)	740	2200	Front	PQ0561 w/PQ0728	JTF12477	2707235	Industrial Tier 3 "B" Rating Rear Exhaust
C9 (8.8L)	20R2530	200	760	2000	Rear	2856123	4ZF25963		12H
C9 (8.8L)	20R5310	270	1000	2000	Rear	3878578	THX32482	3494444 3510371	140M Tier 3
C9 (8.8L)	20R1782	265	900	1800	Front	1870470	4ZF26110		330C Tier 2
C9 (8.8L)	20R0565	245	900	1800	Rear	2342917	4ZFZ6016		330C w/ FTP
C9 (8.8L)	20R0567	245	900	1800	Rear	2083027	4ZF25944	2115020	330C Tier 2



Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
C9 (8.8L)	20R1781	285	1000	1800	Front	3911072	THX43331	2358136 2401861 2702771 2900760 3911073 3911075 4385344	330D Tier 3 336D Tier 3
C9 (8.8L)	20R2529	350	1150	1800	Front	3962097	TXD04378	2535330	336D Tier 3
C9 (8.8L)	20R1785	305	1000	2000	Front	4170640	TXDO1596	2218050	637G Tier 3
C9 (8.8L)	20R1786	240	990	1800	Front	2429531	THX41108	3170789	973C Tier 3
C9 (8.8L)	20R0568	200	870	2000	Front	2545752	4ZF25965		D6R Tier 2
C9 (8.8L)	20R1783	210	770	2000	Front	1693791	4ZF26080		D6R II Tier 2
C9 (8.8L)	20R1784	230	960	1850	Front	3878580	THX43491	2614290 3015768 3181905 3493564 3493565 3878581 3878575 3878582 3878568 3961697 3986424	D6R Tier 3 D6T Tier 3
C9 (8.8L)	20R5309	240	935	2100	Front	3878583	TXD10012		D7R XL LGP

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
C9 (8.8L)	20R6549	275 (275-300)	930	2200	Front	PQ2005	REH03661	3930595	Industrial Tier 3 "A" Rating Rear Exhaust MBD, JSC, REH
C9 (8.8L)	20R6550	350 (325-375)	1150	2200	Front	PQ2008	REH04360	3948475	Industrial Tier 3 "C" Rating Rear Exhaust MBD, JSC, REH
3176C	20R3826	260	970	2000	Front	3381676	3PD21463	1611747 2858268	14H Tier 2
3176C	20R4262	290	920	2000	Front	1260054	7ZR26393		345B Tier 2
3176C	20R1943	345	1040	2000	Front	1730355	7ZR26124		345B Tier 2
3176C	20R1944	255	930	2100	Front	3181380	7ZR26399		D7RSII Tier 2
3176C	20R2522	260	930	2100	Front	1608560	7ZR26389		D7RSII Tier 2
3176C	20R0573	270	880	2100	Front	3296713	7ZR26066	3637874	R1600g Tier 2
C-10	10R6323	335 (310-365)	1080	2100	Front	PA7571	BCX03055	1915391	Industrial Tier 2

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
C11	20R2525	300	1060	1800	Rear	2269770	TXE07986		14M Tier 3
C11	20R1792	325	1120	1800	Rear	2929283	TXE08165		730 Tier 3
C11	20R1793	285	970	1800	Front	2347848	TXE06991	2347850 2916601 3494468	966H Tier 3
C11	20R2520	355	1050	1800	Center	2624153	TXE08346		R1700G Tier 3
C11	20R5606	385 (325-450)	1300	2100	Front	PQ0079	GLS00444	2364572	Industrial Tier 3 Rating Exhaust "C" Front
3196	20R0570	290	1160	2000	Rear	2047983	5ED04745		16H Tier 2
3196	20R1796	420	1360	2100	Front	1165395	6AR03909		Challenger 95E
3196	20R1795	305	1060	2200	Rear	1674381	5ED04746		D300X

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
C-12	10R6324	425 (425-500)	1350	2100	Front	PA7574	BDL05213	1915394	Industrial Tier 2
C13	10R9966	335	1280	2000	Rear	2310876	MHX09535	2275359 3918875 4485031	16M Tier 3 w/Brake
C13	20R1790	410	1300	1800	Front	4248407	TXF05311	2919259 2869259 4248405	345D Remote oil and fuel filter LRC
C13	20R2519	370	1300	1800	Front	2803645	TXF04866	2869795	345C Tier 3 (Remote oil and filter)
C13	20R3957	310	160	1800	Front	2347849	TXF05362	2347851 2916602 3494469	972H Tier 3
C13	20R1808	440 (385-520)	1480	2100	Front	PQ0084	LGK23492	2413804	Industrial Tier 3 "C" Rating Front Exhaust
C13	20R1809	440 (385-520)	1480	2100	Front	PQ0084 w/PQ0544	LGK22005	2413804	Industrial Tier 3 "C" Rating Rear Exhaust
3306	20R1663	110	510	2100	Front	1464341	R6J02608	1464340	12H

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
3306	20R4754	200	700	2000	Front	7W4102	R6J03009		14G
3306	20R1664	230	780	1850	Front	1464346	R6J02462		14H
3306	20R4722	155	660	2100	Front	1464336	10Z43756	1464337 1464338 2669815	140H-VHP 143H-VHP
3306	20R1672	235	760	1800	Front	9Y4134	R6J02686		330
3306	20R1671	240	840	1800	Front	1167568	R6J01890		330B
3306	20R1670	280	920	2200	Front	2757767	R6J02570	1251354	615C II
3306	20R4300	230	670	2200	Front	9Y1719	R6J02976		966D
3306	20R4302	235	680	2200	Front	1063145	R6J02895		966F
3306	20R1673	255	870	2200	Front	1330826	R6J02562		966G
3306	20R4301	265	1000	2200	Front	1330827	R6J03053		970G
3306	20R4755	165	625	1800	Front	1W2630	R6J03015		D6R
3306	20R1665	190	700	1900	Front	1081076	R6J01233	1081078	D6R

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
3306	20R2521	245	830	2100	Front	1082448	R6J02616	1082447	D7R
3306	10R7253	165	540	2200	Front	1471305	6NC33763		R1300
3406B	0R0697	325	1000	2100	Center	6N5020	STH07283		Industrial SEHS8153
3406B	20R2545	340	1110	2100	Front	1005082	11N17818		824D/825D/826D RM316/RM318/RM367
3406C	20R1797	290	930	2000	Front	7W5178	STH07201		16G
3406C	20R1502	290	1030	1850	Front	1107949	TXC01574		16H
3406C	20R2544	350	1260	1900	Front	1244675	TXC02766		621F 627F
3406C	20R2546	340	1240	2100	Rear	1465815	TXC02995		824G/825G/826G RM468/RM469/RM470
3406C	20R1505	290	910	2100	Front	2W1004	BMS00109		980C
3406C	20R1800	295	910	2100	Front	4P7980	A5N00514		980F

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
3406C	20R4261	325	1260	2100	Front	1344138	TXJ00012		980G
3406C	20R1799	325	1260	2100	Front	1527468	TXC02413		980G
3406C	20R1503	325	1260	2100	Front	1927101	TXC01476		980G
3406C	20R2548	310	1050	2100	Front	9Y5555	A5X00584		D8N
3406C	20R1798	305	980	2100	Front	4W9497	A5X00548		D8N
3406C	10R9821	305	1210	2100	Front	2225432	41Z27603	1059697	D8R TXJ
3406C	20R4260	305	1200	2100	Front	2225434			D8R
3406C	0R8625	385	1270	2100	Rear	4P4245	11N15600		245B
3406C	20R1501	460	1400	2100	Rear	1091349	6TB27871		Industrial
3406C	20R2484	465	1600	1800	Rear	1303360	4GW01017		Industrial
3406C	0R4516	400	1240	2100	Rear	7C6843	6TB12551		Industrial
3406C	20R6163	365	1140	1800	Rear	1778869	4TB06957		Marine

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
3406E	20R2547	415	1780	2100	Front	2354689	BET13528		740
3406E	10R8924	310	1290	2000	Front	2354678	BET13507	2131942 2354679 2354691 1694823	980G
3406E (SCAC)	20R1504	310	1220	2000	Front	2354676	BET13536		D8R Series II Tier 2
3406E	10R7256	350	1360	2100	Front	2354693	BKN01853		R2900G
C-15	20R2485	525 (525-575)	1773	2100	Front	PQ0065	BEM03473	2349188	Industrial Tier 3 "C" Rating Forward Exhaust
C15	20R1772	405	1500	1800	Center	4319495	TXG07932	2888156 2869797 2869651 2832437	365C LRC
C15	20R1770	365	1500	1800	Front	2280839	TXG05110	3087665	621G 623G 627G



Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
C15	20R2513	485	1850	1800	Rear	3438557	TXY03234	3438556	735B Tier 2 740B Tier 2 LRC
C15	20R0768	470	1780	1800	Rear	3160602	TXG02853	3887151 3887150	735 Tier 3 740 Tier 3
C15	20R2515	400	1390	1800	Front	2258923	TXG07002		825 Tier 3
C15	10R8922	320	1280	1800	Front	2809912	LHX17052	2250992 2354692 2380973	980H Tier 3
C15	20R0766	350	1350	1800	Front	3135819	TXG02682		980H Tier 3
C15	20R2514	400	1350	1800	Front	3031581	TXG06907	3494456 3600418	980H Tier 3
C15	20R1771	410	1560	1800	Front	2480847	TXG05251		AD30 Tier 3
C15	20R0765	310	1410	1850	Front	2250097	TXG02890	2379123	D8T Tier 3
C15	20r6551	410	1580	1800	Front	4460289	TXG09243	4460290	R2900G II R3000H Tier 2
C15	20R0767	430	1310	1900	Front	2480846	TXG02784	4251722	R2900G II Tier 3
C15	20R2481	540 (440-595)	1820	2100	Front	PQ0089	JRE12422	2543835 3592103	Industrial Tier 3 "C" Rating Forward Exhaust

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
C15	20R2482	540 (440-595)	1820	2100	Front	PQ0089 w/PQ0196	JRE14246	2543835 3592103	Industrial Tier 3 "C" Rating Rear Exhaust
3456	20R0018	475	1970	1900	Center	2354732	BNT10292	1986489	988G Tier 2
C18	20R1730	540	1720	1800	Front	2637760	TXH03636	2157486 3701706	24M w/Brake Tier 3
C18	20R4691	540	1800	1800	Front	3991828	TXH05155	3391829	24M w/Brake Tier 3
C18	20R1728	555	1930	1800	Center	2832438	TXH03633	2869798	385C Tier 3
C18	10R8607	575	1940	1800	Center	3160037	WRH06717		6015 Tier 3
C18	10R8552	700	2360	1800	Center	3470532	WRH06410		6018 Tier 3
C18	20R2512	525	1670	1800	Center	2199507	TXH04278		631G Tier 3 637G Tier 3
C18	20R1352	535	1990	1800	Front	2723087	RHX10492	2922554 3633207	772 w/o Brake Tier 3
C18	20R1731	555	2120	1800	Center	2256111	TXH03309		834G w/ Brake

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
C18	20R0184	470	2000	1800	Center	2256065	RHX09107		988H Tier 3
C18	20R4097	555	2000	1800	Center	2816453	RHX08685	2816455 3494449 3701708 3838943	988H Tier 3 w/Brake
C18	20R2510	555	2000	1800	Center	2816452	TXH04385	2816454 2256108 3494448 3841749 3755840	988H Tier 3 836H 834H
C18	20R0518	545	2060	2000	Center	2345658	RHX10731		AD45B Tier 3
C18	20R1729	650	2080	2000	Center	2973152	TXH03514	2345659	AD55 Tier 3
C18	20R5354	410	1870	1800	Front	3547688	TXW01299		D9T LRC
C18	20R0516	410	1850	1800	Front	2058603	RHX10447	2313468 3494445	D9T Tier 3
C18	20R1353	575	2000	1900	Center	3809911	RHX10740	2347925	PM-200 Tier 3
C18	20R1810	630 (575-630)	2040	2100	Front	PQ0092	WJH08246	2371955	Industrial Tier 3 "A" Rating Forward Exhaust
C18	20R3655	850	3190	1500	Center	2412422	STH07283		EPG 50HZ

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
C18	20R3656	925	3160	1800	Center	2691769	STH07201		EPG 60HZ
3408	20R4303	450	1510	2000	Rear	1W3782	48W48966		631E
3408	20R3919	450	1435	2100	Rear	2W0834	48W48588		834B
3408	0R9970	375	1230	2200	Rear	2W0988	48W41432		988B
3408	20R2543	430	1420	2000	Rear	4P4988	48W48630		988F
3408	0R7314	400	1400	1900	Front	1056573	48W41327	7W2850	D9N
3408C	20R1348	450	1650	1900	Front	1693690	48W48038		D9R
3408C	20R3959	405	1650	1900	Front	2035589	48W49483		D9R Arctic Version
3408C	0R2785	450	1480	2000	Front	2W0769	48W36725		768C 769C
3408C	20R2542	475	1480	2000	Rear	1011288	48W49007		768C 769C
3408E	20R4530	490	1670	2000	Rear	2305098	5XD05075	1620471	631G Tier 1 637G Tier 1

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
3408E	20R4104	510	1650	2000	Front	1230206	99C10330		768D Tier 1 769D Tier 1 771 Tier 1
3408E	0R3966	510	1770	1900	Front	1314876	99C09905		769D Tier 1 771D Tier 1
3408E	20R1347	485	1670	2000	Rear	2200257	5XD05013		769D Tier 2 771D Tier 2
3408E	20R4532	450	1450	2100	Rear	1230203	99C10291		836 Tier 1
3408E	0R7445	430	1600	2000	Rear	1430029	99C09916		988F Tier 1
3408E	0R7446	445	1770	1900	Front	1393287	99C05864		D9R Tier 1 (Clutch/Brake)
3408E	20R4096	445	1800	1900	Front	1393286	99C10340		D9R Tier 1 2 Pump DS
3408E	20R1345	475	1890	1800	Front	1635784	5XD05033		D9R Tier 2
3408E	20R1346	475	1880	1800	Front	1635785	5XD05000		D9R Tier 2
3412	0R3968	680	2100	2000	Front	1037416	73W17225		773B

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
3412	20R1553	725	2230	2000	Rear	1443578	80M05105		773D Tier 1
3412	20R1555	710	2530	2000	Rear	1879073	5JJ04683	1983055 1879072	773E Tier 2
3412	20R1554	760	2340	2000	Rear	1879075	80M08861	2090191	775E Tier 1
3412	0R7340	690	2080	2200	Front	IN4400	73W14344		992C
3412	20R2517	725	2230	2000	Front	2938251	80M09014		992C
3412	0R7339	710	2210	2200	Front	1301248	73W18258		992D
3412	20R1551	490	1700	1900	Front	6N1348	73W21217		D9L
3412	0R7315	520	1950	1900	Front	1056574	73W17573	7W2873	D10N
3412E	10R8903	500	1770	2000	Front	1230200	80M08792		24H Tier 1
3412E	10R0890	680	2120	2000	Front	1443577	80M04292	1314877 2963196	773D Tier 1
3412E	20R2524	675	2160	2000	Front	1221117	80M09004		990 Series II
3412E	20R0019	620	2250	2000	Front	1846458	5JJ04549		990 Tier 2 844 Tier 2

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
3412E	0R7542	570	2110	1900	Front	1157641	80M03376		D10R Tier 1
3412E	10R8901	580	2190	1800	Front	1715806	5JJ04544		D10R Tier 2
3412E	20R2516	760	2250	2100	Rear	2083619	BDT05927		Industrial Tier 1 SAE #1 flywheel
C27	20R0429	750	2720	2000	Front	2930853	LJX00808		AD55B Tier 2
C27	20R1787	765	2550	1800	Front	3510216	TWM03334	3899981 R 3554829 L 3899982 L	6030 Tier 2 Right-Side
C27	20R0428	785	2660	2000	Front	2275354	LJX01314		775F Tier 2
C27	20R4343	825	2940	2000	Front	3637877	NZG00600	3357361	775G LRC
C27	20R4344	825	2940	2000	Front	3357363	NZG00572		775G w/ Brake LRC
C27	20R0519	740	2580	1800	Front	2275353	EHX06365		773F Tier 3
C27	20R0020	630	2190	2000	Front	2175670	EHX05632		990H Tier 3

Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
C27	10R9495	530	2050	1800	Front	3169147	EHX06649		D10N Tier 3 Repower Tier 3
C27	10R9496	580	2210	1800	Front	3281711	EHX06606		D10R Tier 3 Repower Tier 3
C27	10R7244	410	1890	1800	Front	2712219	EHX06183	2122744 2122737^  2712220^	D10T Tier 3
C32	20R2509	1015	3630	1750	Center	3899983	TLD01203	2912859 4224603 4161104	6040 Tier 2
C32	20R1351	1015	3630	1750	Center	3475835	LJW08464		777B 777C 777D Repower
C32	10R9819	1015	3640	1750	Center	3538645	LJW04907	3667767	777F Tier 2
C32	10R9820	1015	3630	1750	Center	3538646	LJW04907	2623743 3667768	777F w/ Brake Tier 2
C32	20R2508	1025	4010	1800	Front	3507671	FZS00991	3357367	777G LRC
C32	10R8915	800	3590	1750	Center	2593142	LJW05770	2464283	992K Tier 2 854K Tier 2



Model	Part Number	HP (HP Range)	Torque (TQ Range)	RPM	Sump	Reference Arrangement	Reference S/N	Similar Arrangements	Application Information
C32	10R8905	800	3590	1750	Center	2593143	LJW05753		992K w/Brake Tier 2 854K w/ Brake Tier 2
C32	20R4346	940	3590	1750	Center	3331169	MZM00391		992K LRC 854K LRC
C32	10R8904	1050	3690	1900	Center	2459772	LJW06178		993K Tier 2
C32	20R2507	925	3550	1800	Front	3413157	WZH00605		D11T LRC
C32	10R8902	925	3530	1800	Front	2465627	LJW04999		D11T Tier 2
C32	20R2506	925	3630	1800	Front	3208050	WHH00439		D11T Tier 4F
C32	20R3657	1500	5020	1800	Rear	3249750	SYC05908	2739682	EPG 60Hz SAE#0 Flywheel
C32	20R3735	1330	5130	1500	Rear	3431710	MTH00229		EPG 50Hz SAE#0 Flywheel

## T E C H N I C A L   S U P P L E M E N T

### Small Engines

Model	Part Number	HP (HP Range)	RPM	New Arrangement	Ref S/N	Performance Specifications	Application Information
3003	10R7477	18	2300	1456693 2663054	KDC		301.5, 301.6, 301.8
3003	10R7478	12	1800	2096629	KDC		Industrial
3013	10R7479	32	2800	1403555 1779706	KEC		CB334D, CB335D
3013	10R7480	27	2300	1683312 2317677	KEC		302.5 CB- 214/224/225D
3013	10R7481	27	2300	1568491 2545516 1456694 2663055	KEC		CB214D/224D, 302.5
3013	10R9398	32.7	2800	2268699	KEE		CB214E, CB224E, CB225E
3014	10R7482	43	2800	1403556	KFC		CB334D
3024	10R7483	48	2600	1399583	KRC		902
3024	10R7485	39	2200	1683133	-		304.5MHE
3024C	10R7921	51	3000	1791808	-		216, 216B, 232, 232B
3024C	10R7922	61	3000	2336648	-		226B, 242B, 247B, 257B
3024C	10R9399	50	2800	2166386 2309521 2344171 2426044 2610966	-		Industrial
3024C	10R9400	60	2800	2245881 2300823	-		Industrial
3034	10R4530	80	2600	1471234	-		246, 262, 277, 287
3034	10R4531	80	2600	1599214	-		246, 248

Model	Part Number	HP (HP Range)	RPM	New Arrangement	Ref S/N	Performance Specifications	Application Information
3034	10R4532	63	2600	1471233	-		236, 252, 257, 267
3034	10R4533	63	2600	1630248	-		906
3034	10R4534	63	2600	2247498	-		906
3034	10R4535	58	2600	1446194	-		228, 247, 242, 226
3034	10R4536	58	2600	1599213	-		216, 226, 228, 236, 246, 248
3034	10R4537	63	2600	1471232	-		216
3054	10R2477	114	2100	1306340	-		315B/317B
3054	10R2478	99	2100	1057971	-		315
3054	10R2479	116	2300	1079665	-		M312/315
3054	10R2480	122	2300	1306343	-		M315
3054	10R1876	78	2200	1065001	-		416C/428C
3054	10R1877	82	2200	1065002	-		426C
3054	10R1878	77	2200	7E7702	-		416
3054	10R1879	82	2200	7E9559	-		426
3054	10R1880	87	2200	7E9560	-		436
3054	10R1882	86	2200	1228805	-		426C
3054	10R1883	82	2200	1228804	-		416C/428C
3054	10R1884	86	2200	1878014	-		420D/432D
3054C	10R5995	92	2200	2343060	-		420D/432D
3054C	10R5996	83	2200	2343059	-		460D/424D/428D
3054C	10R5997	100	2200	2343061	-		428D/430D/442D
3054C	10R5998	91	2200	2733611	-		420D
3054C	10R5999	130	2200	1779752	-		CP-533E/CS-533E
3054C	10R6000	75	2200	2343058	-		416D/424D

Model	Part Number	HP (HP Range)	RPM	New Arrangement	Ref S/N	Performance Specifications	Application Information
3054E	10R6001	100	2200	1763180	-		TH220B/TH330 B/TH340B/TH35 0B TH360B/TH460 B/TH560B/TH58 0B
3054E	10R6005	123	2200	1949477	-		TH350B/TH360 B
3054C	10R8789	83	2400	2197588	-		Industrial
3054C	10R8790	122	2300	2236467	-		Industrial
3054C	10R8791	91	2200	2733610	-		416E/420E
3054E	10R8792	116	2150	1763172	-		315C
3056E	10R8793	130	2300	2542236	-		930G
3056E	10R6002	150	2200	1763165	-		CS-563E/CP-563E/CS-573E CP-573E/CS-583E/CP-583E
3056E	10R8062	170	2000	1885098	-		M322C
3056E	10R6006	158	2000	1885096	-		M318C
3056E	10R6003	149	2300	1791797	-		928G, If machine has 31 pin harness reuse harness and sensors off old engine
3056E	10R8793	149	2300	2542236	-		930G
3056E	10R8794	132	2300	2062744 1791796**	-		924G, If machine has 31 pin harness reuse harness and sensors off old engine
C1.5	20R0353++	32.7	2800	2932055	-		CB22, CB24, CC24, CB32
C1.5	20R0354++	21.7	1800	3174986	-		C1.5 Industrial Engine
C2.2T	20R0345++	60	2800	3107852	-	T3140	C2.2 Industrial Engine
C2.2T	20R0346++	60	2800	3101532	-		C2.2 Industrial Engine

Model	Part Number	HP (HP Range)	RPM	New Arrangement	Ref S/N	Performance Specifications	Application Information
C2.2T	20R0347++	59.9	2800	3079835	-		C2.2 Industrial Engine
C2.2	20R0351++	42.1	2600	3181707	-		C2.2 Industrial Engine
C2.2	20R0350++	45.7	2400	3028138	-		CB34, CB34XW, CC34,
C2.2	20R0352++	48.6	2800	3261872	-		C2.2 Industrial Engine
C2.2T	20R0344++	61	3000	2925719	-	T2890	226B2, 226B3, 247B2, 247B3, 257B2, 232B2, 242B2
C2.2	20R0349++	50.9	3000	2925718	-	T3136	216B2, 216B3
C4.4T	20R0355++	99.9	1900	2549233	C4E	-	D3K, D4K, D5K
C4.4T	20R0356++	99.9	2200	2885219	C4E	T3030	420E
C4.4T	20R0363++	156.8	1800	3050477	-	T3362	C4.4 Genset Engine
C4.4T	20R0364++	127	2200	3085585	-	T2900	C4.4 Industrial Engine
C4.4T	20R3531++	99.5	2200	3217705		T3496	434E Backhoe Loader Tier III
C4.4T	20R3532++	99.9	2200	3131224		T3056	C4.4 Industrial Engine Tier III
C4.4T	20R3420++	93.87	2200	3217704		T3500	422E Backhoe Loader Tier III
C6.6T	20R0371++	183.7	2000	2421399	-	-	D6N
C6.6T	20R0372++	173	2200	2421382, 3673635	-	-	938H, IT38H
C6.6T	20R0373++	132	2300	2925306	-	T3256	924Hz
C6.6T	20R0374++	163	2100	2421356	-	-	D6K, PL61
C6.6T	20R0375++	156	2200	2421327	-	-	CS56, CP56, CS74 CP74 vibratory compactor, CS64 CP64
C6.6T	20R0376++	173.6	1800	2421349	-	-	M318D

<b>Model</b>	<b>Part Number</b>	<b>HP (HP Range)</b>	<b>RPM</b>	<b>New Arrangement</b>	<b>Ref S/N</b>	<b>Performance Specifications</b>	<b>Application Information</b>
C6.6T	20R0379++	152.2	2300	2925305	-	T3252	928Hz, 930H,
C6.6	20R3530++	173	2200	3197201		T3476	D6N XL Tier III

Model	Reman Emissions Engine Arr+	Original Engine Arr	New Emissions Engine Arr	Application	Emissions Parts Kit
Remanufactured Engines Specifications- Emission Retrofit *					
3116 DITA JWAC	0R8760	7E0576, 100-5839, 106-1756	112-9039	950F	-
3306 DIT JWAC	10R2886	3P0075, 7N1533, 7N1212, 2W0820	146-4337, 146-4336 (Both Variable Horsepower)	140G	-
3306 DIT JWAC	10R1840	1W2630, 4P2972, 7W9511, 8N5376, 7C0501	108-1073	D6H	-
3306 DITA JWAC	10R1636	7E0082, 9Y1719, 6N3055	122-4210	966D/E/F	-
3306 DITA JWAC	10R1851	7N2740, 7C2032, 8N3207	113-5371, 116-7574	D7H	-
3406C DITA JWAC	10R2065	4W9497 7C0071	240-1731	D8N	-
3408E DITA JWAC	10R1561	2W0631, 4N6724	225-0396	631/3/7D Tractor	225-0402
3408E DITA JWAC	10R1562	1W3782	225-0397	631/3/7E Tractor	225-0404
3408E DITA JWAC	10R1443	2W0657	212-6992	657E Scraper	213-4484
3408E DITA JWAC	10R1181	4N7722, 1W0769, 2W0769, 101-1288, 9Y0222	225-0400	769C, 771C	225-0407
3408E DITA JWAC	10R1179	8N1843, 4N6254, 2W0988	225-0399	988B	225-0406
3408E DITA JWAC	10R1178	4P4988	225-0398	988F	225-0405
3408E DITA JWAC	10R1176	2W0108	214-3618	D8L	213-4489
3408E DITA JWAC	10R1174	7W2850	212-3757	D9N	213-4482
3412E DITA JWAC	10R1444	8N0970	212-6991	651/3/7E Tractor	213-4483
3412E DITA JWAC	10R1177	1W0773	212-2234	773/5B	213-4078
3412E DITA JWAC	10R1173	7W2873 / 105-6574	216-7826	D10N	213-4488
3412E DITA JWAC	10R1175	6N1348	213-3611	D9L	213-4488
3508B DITA JWAC	0R9841	4N8330, 2W5258	257-6350	777A	269-4945
3508B DITA JWAC	0R9841	2W0174	195-3816	777B/C/D	-

Reman engines come assembled (less shipped loose parts) and dynamometer-tested. The cleaning, inspection and remanufacturing specifications of Cat Reman engines provide the best possible value for our customers. Flywheel, starter, alternator, and associated wiring must be reused from the core engine or purchased separately.

1- Adaptable to other HP settings and exhaust brakes. See Special Instructions.

2- Adaptable to 250 HP and 275 HP ratings.

3- High performance.

4- Adaptable to 250, 275, and 330 HP ratings.

5- Adaptable to 210 high torque rating.

6- Adaptable to 175 and 210 @ 2400 RPM rating.

a- Standard transmission applications.

b- Automatic transmission applications.

d- When this engine, which contains a 3-ring piston, is used in place of a two ring engine application, dynamic vibration may occur. This may require a new crankshaft damper and/or flywheel with the correct bob weight. The additional cost of these parts is not eligible under warranty. See Service Magazine June 19, 1989 (SEBD197100019) for more information.

e- 0R1154 may be converted for use in V700, V800, V900 CH, V925, V925 LH, and V1100 CTH Lift Trucks. 0R1154 is factory-set for 250 hp and 2600 rpm to 0T6002 Engine Performance Specification. 0R1154 must be readjusted to 0T5467 Engine Performance Specification for V700-V900 CH Lift Trucks and 0T4617 Engine Performance Specification for V925-V1100 CTH Lift trucks. For complete engine performance specifications, refer to "Vehicle Fuel Setting and Related Information", microfiche Form SBFY1109. When adjusting the fuel setting, refer to Special Instruction, SMHS7013. NOTE: Whenever an engine is reset to new specifications, always install a 4W5140 Information Plate. Place the new plate on top of the original Information Plate, with the new information stamped on the new plate.

f- 0R3231 replaces 0R0779 and contains 17.5:1 compression ratio pistons which reduce white smoke generated during cold start conditions. No single parts manual can be used to identify all the components in the new engine arrangement. However, all of the engine components except the required 7W3846 Piston Body Assembly and 7W3710 Fuel Nozzle can be obtained by using the parts manual for the 9N5149 Engine Arrangement. See Service Magazine February 25, 1991 for more details.

k- Includes wide bearing crankshaft and improved top ring cooling.

m- Includes wide bearing crankshaft.

r- The 170, 200, 215 250, and 275 HP engines will readily adapt to standard transmission applications. The 185 HP requires separate arrangements because of the torque capacity of each transmission.

+ - Refer to your local air board and regulators to determine if remanufactured engines are eligible for available funding. Also all remanufactured arrangements have the identical configuration as the new emissions arrangements, including software.

\*- These engines can NOT be used to re-power Tier 2 or above machines.

\*\* - Built for Freightliner, Kenworth, Peterbilt, etc. Engine is mounted vertically and turbo is mid-mounted. Ford applications require changing flywheel housing and turbo piping.

\*\*\* - Built for Ford configurations. Engine is mounted in a slanted position and turbo is in a low mount position. Use in other brands of engines usually requires changing the flywheel housing and turbo piping.

\*\*\*\* - The only 3208 Remanufactured engines which can be used with an exhaust brake are 0R1152 and 0R3687.

^ - For Sound Suppressed D10T Use this Reman engine and the Flash File for the Sound Suppressed Engine.

^^ Other Arrangements that this reman engine works for 106-1758, 7E0576, 4P9992, 100-5839, 100-7024, 102-8822, 102,9890, 106-1757, 108-1743.

^^^ Other Arrangements that this reman engine works for 9y1932, 101-4871, 6I2112, 1298578.

++ During initial stages of this offering, you may receive a new seed engine that will be dressed with peripheral components such as flywheel, starter, alternator, etc. Be advised that these components are not part of a normal Reman complete engine configuration and you will not be charged for these items.

#### INSTALLATION TIPS FOR NON-STANDARD ENGINES

The following are comments on installing reman engines in applications for which the reference engine was not originally designed. Installation under these circumstances can be greatly aided by comparing the consist of the reman engine with the consist of the engine being replaced.

Reman engines are configured from a production engine that was designed to be installed in a particular OEM chassis. Reman engines may be installed in chassis other than what they were originally configured for if certain engine groups affecting chassis interface are modified or exchanged between the engines. The following is a list of reman engine models and the chassis the reference engine was designed to match:

<u>Reman Engine</u>	<u>Chassis</u>
3116	GM
3126	Freightliner
3126B	Freightliner



3176B	Freightliner
3208NA	Ford, GM, IHC
3208T	Ford
C-10	Freightliner
C-12	Freightliner
3406	Freightliner

The engine groups needing possible modification or exchange may include flywheel housing, exhaust manifolds, water lines, oil lines, fuel lines, air inlet, exhaust location, and oil sump location. Refer to engine spec sheets to determine if the engine being installed will cause chassis modifications due to increased height or width.

Using a reman engine to replace an engine with different aspiration, mechanical control versus electronic control, or a different engine model can be accomplished in some cases. The following table contains possible exchanges with comments regarding written guidelines, parts compatibility, changes to chassis interfaces, and other considerations. The table is not intended to completely describe all the concerns that may be encountered in an installation.

<u>Original Engine</u>	<u>Reman Replacement</u>	<u>Comments</u>
3208NA	3208T	Change to inlet and exhaust line size and location. Possible cooling system changes.
3116 MUI	3116 HEUI	Extensive changes to the chassis to accommodate the electronic engine. Very difficult and costly.
3116 HEUI	3126	No significant differences externally in the engines. Not true for upgrade to 3126B.
3126	3126B	Changes required to the air and exhaust piping due to the crossflow head on 3126B. No adapter for the wiring harness. Check radiator and aftercooler capacity.
3176	3176B	See REHS0400 for wiring harness adaptability. Check radiator and aftercooler core capacity.
3176/3176B	C-10	See REHS0400 for wiring harness adaptability. Check radiator and aftercooler core capacity. Most brackets for belt driven accessories can not be exchanged. May require relocation of water and fuel lines.
3460B JWAC	3406C ATAAC	Requires changes to the intake exhaust air piping. An air to air aftercooler of the correct size will need to be installed. The radiator capability may be affected by installation of the aftercooler core and a possible engine power change.
3406 PEEC	3406E	Requires changes to the intake and exhaust piping to accommodate possible differences between air to air and jacket water aftercooling. Use conversion wire harness 613168 to convert 3406B PEEC to 3406C PEEC, 100-7765 to convert 3406C PEEC to 3406E and both to convert 3406B PEEC to 3406E.
3406 Mechanical	3406E	Requires changes to the intake and exhaust piping to accommodate possible differences between air to air and jacket water aftercooling. Use conversion wiring harnesses as indicated previously. Requires change to a throttle pedal with electronic control and installation of a check engine light for display of faults detected by the ECM. Assure that aftercooler and radiator capacity is adequate. Driveline compatibility is a consideration if rating changes are involved.

The following concerns should be addressed with any conversion:

1. Radiator and aftercoolers will need to be properly sized and located to assure correct engine performance. Old radiators should be cleaned.
2. The driveline must be compatible with the conversion engine rating and performance characteristics.
3. Air piping, exhaust piping, oil lines, water lines, fan drive and accessory drives may need to be modified. Some components may not be able to be exchanged between engines and must be purchased separately.
4. Fuel supply and return line size is a concern when converting from mechanical to unit injected engines due to the larger volume of fuel circulated by the unit injected engines.