



## IPD Products for Caterpillar® C12 ENGINES

IPD Overhaul kits include:

- **Cylinder kits including IPDSteel® articulated 2-piece pistons** (patented cast steel crown & aluminum skirt), piston pin, rings & liner.
- **IPD Induction Hardened Liner** for maximum wear resistance.
- **IPD Rod & Main Bearings** made from heavy duty materials.
- **IPDStyle 1-2-3™ Gasket Sets** including all the items you need for a proper engine overhaul.

Individual components that are available also include:

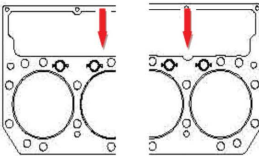
- Camshaft bushings
- Idler Gear bushing
- Valves, guides, seats and springs
- Connecting rod bushings

**The Standard for Quality, Innovation, Service and Support Since 1955**

## IPD PARTS FOR CATERPILLAR® C12 ENGINES

IPD Part Number	Description	IPD Cylinder Kit Number Included	Engine Serial Ranges	Head Gasket (Scalloped or Straight)
<b>IPD IN FRAME C12 OVERHAUL KITS</b>				
IF9374/032STR	IN FRAME KIT, TRUCK	PLG1979374	MBL1-UP	Straight
IF2948/002SCL	IN FRAME KIT, TRUCK	PLG1442948	9NS1-UP	Scalloped
IF2948/002STR	IN FRAME KIT, TRUCK	PLG1442948	9NS1-UP	Straight
IF2948/022SCL	IN FRAME KIT, TRUCK	PLG1442948	2KS1-UP	Scalloped
IF2948/022STR	IN FRAME KIT, TRUCK	PLG1442948	2KS1-UP	Straight
IF9328/012SCL	IN FRAME KIT, TRUCK	PLG1979328	1YN1-UP	Scalloped
IF9328/012STR	IN FRAME KIT, TRUCK	PLG1979328	1YN1-UP	Straight
IF2948/052STR	IN FRAME KIT, TRUCK	PLG1979328	CPD1-UP	Straight
IF2948/042STR	IN FRAME KIT, INDUSTRIAL	PLG1442948	BDL1-UP	Straight
IPD Out-of-Frame engine kits also available				SCL = Scalloped head gasket STR = Straight head gasket

IPD CYLINDER KITS FOR C12			
IPD Part Number	Description	Compression Ratio of Piston	Comments
PLG1442948	CYLINDER KITS	16:25:1	PLG kit contains: crown, skirt, rings, pin, retainers, liner and seal. See above for application by engine serial number
PLG1979328	CYLINDER KITS	16:0:1	
PLG1979374	CYLINDER KITS	16:2:1	
IPD Engine and PLG kits applicable to applicatons with less than 500BHP			

IPD STYLE 123™ IN FRAME GASKET SETS FOR C12 APPLICATIONS					
IPD Part Number	REMARKS		Engine Serial Ranges	Head Gasket (Scalloped or Straight)	
C12002SCLNLS	TRUCK ENGINE		9NS	Scalloped	
C12002STRNLS	TRUCK ENGINE		9NS	Straight	
C12022SCLNLS	TRUCK ENGINE		2KS	Scalloped	
C12022STRNLS	TRUCK ENGINE		2KS	Straight	
C12012STRNLS	TRUCK ENGINE		1YN	Straight	
C12012SCLNLS	TRUCK ENGINE		1YN	Scalloped	
C12032STRNLS	TRUCK ENGINE		Shown	MBL	Straight
C12052STRNLS	TRUCK ENGINE			CPD	Straight
C12042STRNLS	INDUSTRIAL ENGINE			BDL	Straight
Injector o-rings are <u>not included</u> in IPDStyle 1-2-3 Gasket Sets IPDStyle 1-2-3 Out-of-Frame gasket sets also available Additional OE Style gasket sets are also available			SCL = Scalloped head gasket STR = Straight head gasket		

<b>IPD ENGINE BEARINGS AND BUSHINGS FOR C12 APPLICATIONS</b>				
IPD Part Number	Description	Quantity per Engine	Engine Serial Ranges	Comments
2110588	MAIN BEARING, STANDARD	3	ALL	
1280382	MAIN BEARING, .50 MM	AS REQUIRED	ALL	
2110587	MAIN BEARING, STANDARD	4	ALL	
1280400	MAIN BEARING, .50 MM	AS REQUIRED	ALL	
2463144	THRUST PLATE	2	ALL	
1161089	ROD BEARING, STANDARD	6	ALL	
1280395	ROD BEARING, .50 MM	AS REQUIRED	ALL	
1152972	BUSHING, CONNECTING ROD	6	ALL	
9M2418	BUSHING, IDLER GEAR	1	ALL	
2165584	CAM BEARING	1	ALL	Rear
2165585	CAM BEARING	1	ALL	Front
2165583	CAM BEARING	5	ALL	Intermediate



### IPD VALVE TRAIN PARTS FOR C12 APPLICATIONS

IPD Part Number	Quantity per Engine	ENGINE SERIAL NUMBER RANGE					
		MBL1-UP	BDL1-UP	9NS1-UP	1YN1-UP	2KS1-348	2KS349-UP
GUIDE, VALVE	24	1008150	1008150	1008150	1008150	1323214	1008150
LOCK, VALVE	48	2A4429	2A4429	2A4429	2A4429	2A4429	2A4429
SPRING, INNER	24	2414441	2414441	2414441	2414441	2414441	2414441
SPRING, OUTER	24	2140586	2140586	2140586	2140586	2140586	2140586
VALVE, INTAKE	12	1929213	1929213	1929213	7E9578	7E9578	1929213
VALVE, EXHAUST	12	1337029	1337029	1337029	1337029	1337029	1337029

*Note: All IPD valves are made of materials designated for this application*

### IPD MISCELLANEOUS PARTS FOR C12 APPLICATIONS

IPD Part Number	Description	IPD Part Number	Description	IPD Part Number	Description
5S8543	BEARING, OIL PUMP DRIVE	0L1026	PLUG, CORE	1979251	PISTON PIN
7C3095	REGULATOR 190 (THERMOSTAT)	3B0623	PLUG, CORE	1979341	PISTON RING, COMPRESSION
3S9643	SEAL, THERMOSTAT	1B3867	BALL BEARING	2168570	PISTON RING, INTERMEDIATE
7C8292	ISOLATOR	1B8705	KEY, WOODRUFF	2382704	PISTON RING, OIL CONTROL
6I1638	BASE, INJECTOR POSITIONING				



Please continue to check with your IPD Customer Service Center or our free IPD e-newsletter available at [www.ipdparts.com](http://www.ipdparts.com) for updates to our coverage on all of our product lines

**IPD IS AN ISO9001:2008 CERTIFIED COMPANY**



*The Standard for Quality, Innovation, Service and Support Since 1955*

# IPD C12 PRODUCT LINE

IPD provides cost effective quality without risk to engine life or performance.

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## IPDSteel®

IPD's patented cast steel articulated 2-piece pistons are manufactured using state of the art CNC equipment at our Torrance (California) facilities under our ISO9001:2008 certified program.

## IPD Engine Model Summary\*

### Caterpillar:

- C-Series (C7, C9, C10, C12, C15)
- 3500 Series (3508/3512/3516/3520/3524)
- 3400 Series (3406/3408/3412)
- 3300 Series (3304/3306)
- 3200 Series (3204/3208)
- 3100 Series (3114/3116/3126/3176C)
- 3000 Series (3064/3066)
- 300 Series (339/342/343/346/348/353/379/398/399)

### Cummins:

- ISX/QSX

### Detroit Diesel:

- 60 Series



\* IPD's parts coverage is quite extensive at over 12,000 part numbers, which also includes select components (such as gasket sets, seals, and more) for engines not listed above.

## IPD brand quality products distributed by:



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