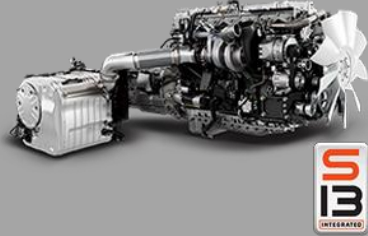




Engine Comparisons



	International® S13 Integrated Powertrain	International® A26	Cummins® X15
			
FEATURES			
Horsepower Range	370-515	370-515	400-605
Torque Range [lb.ft.]	1250-1850	1250-1750	1450-2050
Dry Weight [lbs]	2284	2299	2961
Displacement [liters]	12.74	12.4	14.9
Compression Ratio [1:1]	23	20.5	19.6
Design Life [miles]	B10 of 1,200,000	B10 of 1,200,000	B50 of 1,000,000
Valve Train	Dual Overhead Hollow Camshaft	Single Overhead Hollow Camshaft	Single Overhead Hollow Camshaft
Cylinder Head Material	Compacted Iron Graphite	High Performance Iron	Gray Iron
Fan	6 On-Highway / 9 Off-Highway	6 On-Highway / 11 Off-Highway	9
Turbocharger	Fixed Geometry Turbo	Variable Geometry Turbo	Variable Geometry Turbo
EGR Cooler	No	Yes	Yes
Warranty – Standard	2 Years, Unlimited Miles & Hours	2 Years, Unlimited Miles & Hours	2 Years / 250,000 Miles

13L Competitive Engine Comparisons



	Volvo D13	Detroit DD13	Paccar MX13
			
FEATURES			
Horsepower Range	375-500	375-525	405-510
Torque Range [lb.ft.]	1550-1850	1250-1850	1450-1850
Dry Weight [lbs]	2635	2487	2600
Displacement [liters]	12.8	12.8	12.9
Compression Ratio [1:1]	18	20	18.5
Design Life [miles]	B50 of 1,200,000	B50 of 1,000,000	B10 of 1,000,000
Valve Train	Single Overhead Hollow Camshaft	Dual Overhead Hollow Camshaft	High Strength SOHC Low In-Block
Cylinder Head Material	-	-	Compacted Graphite Iron
Turbocharger	Variable Geometry	Proprietary Asymmetric Geometry	-
EGR Cooler	Yes	Yes	Yes
Warranty – Standard	2 Years / 250,000 Miles	2 Years / Unlimited Miles	2 Years / 250,000