

T12 - Report Period: OCT 2011
Status Of Reported Tests

STATUS	COUNT	PERCENT
Aborted	7	11.667
Cancelled	1	1.667
Valid	52	86.667
Total Reported Tests	60	100.000

T12 - Report Period: OCT 2011
Itemized Lost Test Report

Obs	Date	TESTKEY	REASON
1	20110506	ACC-7854	Test Was Terminated At 193 Hours Per Sponsor's Request.
2	20110511	ACC-7855	Test Was Terminated At 196 Hours Because Of Engine Connecting Rod Failure
3	20110523	ACC-7887	Test Terminated At 56 Hours Due To Engine Problems Resulting In High Fuel Dilution And High Soot.
4	20110526	ACC-7976	Test Was Terminated At Test Hour 114 Due To Fire In The Test Cell.
5	20110722	ACC-8280	Test Had A Mechanical Failure At 184 Hours. Upon Disassembly It Was Found That The Cylinder #1 Rod Bearing Was 'spun'.
6	20110729	ACC-8333	Test Was Aborted At 78 Hours. A Stuck Valve Rotator Was Found In The Head At Cylinder #3. This In Turn Caused A Dropped Valve.
7	20110902	ACC-8530	Test Was Stopped At 185 Hours For Excessive Shutdowns And High Cu Levels
8	20110902	ACC-8534	Test Was Aborted At Test Hour 115 Due To Connecting Rod Failure.

T12 - Report Period: OCT 2011
Replicate Database Report

Components of Replicate Database	OCT 2011	All Periods
Number of Tests	.	8
Formulations	.	4
Labs	.	3
Stands	.	6

T12 - Report Period: OCT 2011
by-Formulation Pooled s and Reproducibility of Replicate Data

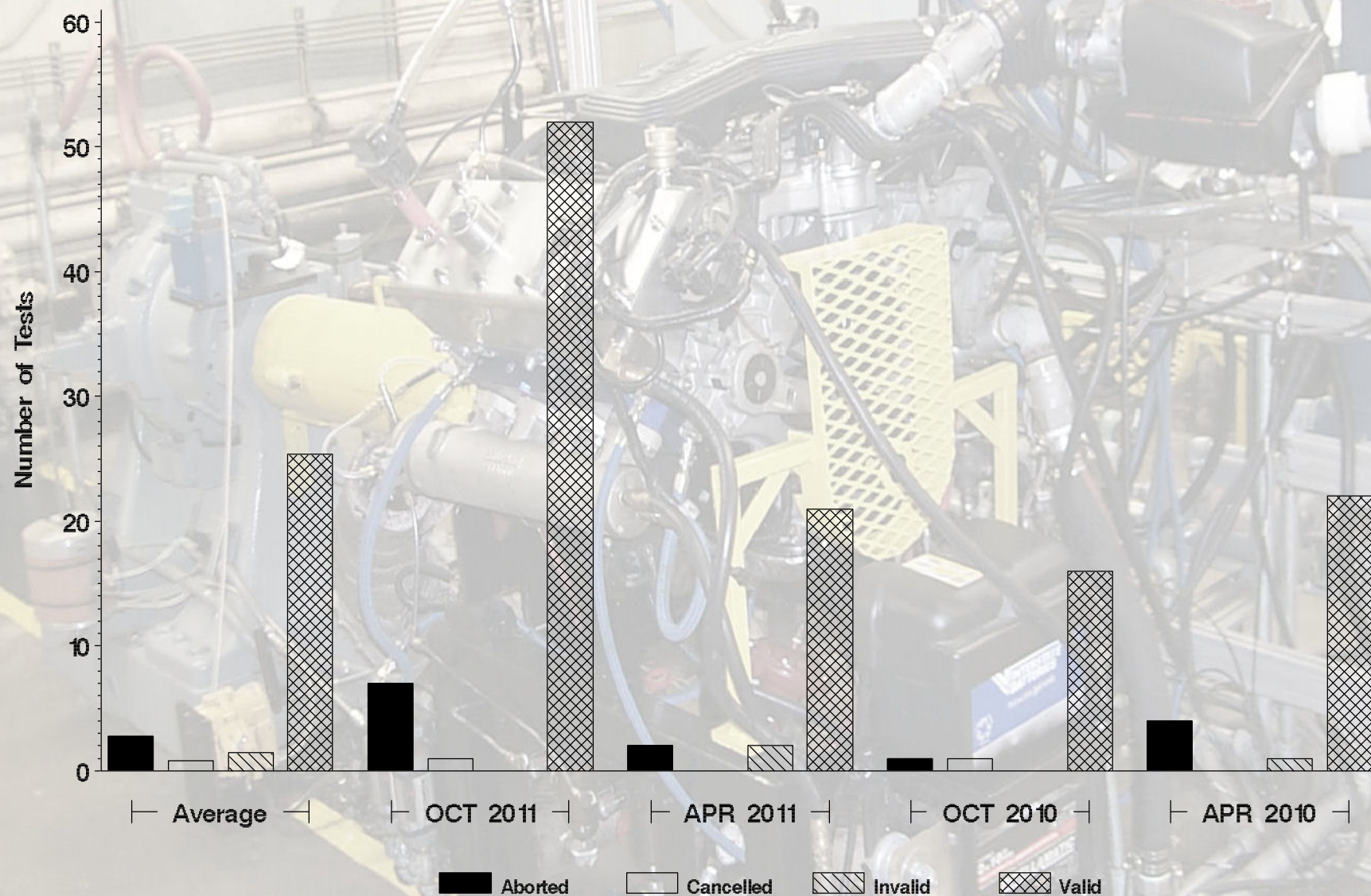
Report Period	Parameter	Degrees of Freedom	Pooled s	R
All	MACKMER	4	1476.30	4133.63

T12 - Report Period: OCT 2011
Pass/Fail

Report Period	API Category	N	Number Passed	% Passed
OCT 2011	All Categories, All Parameters	52	18	34.6154
OCT 2011	CJ-4 - All Parameters	52	18	34.6154
OCT 2011	CJ-4, MACKMER	52	18	34.6154
All	All Categories, All Parameters	330	134	40.6061
All	CJ-4 - All Parameters	330	134	40.6061
All	CJ-4, MACKMER	330	134	40.6061

T12

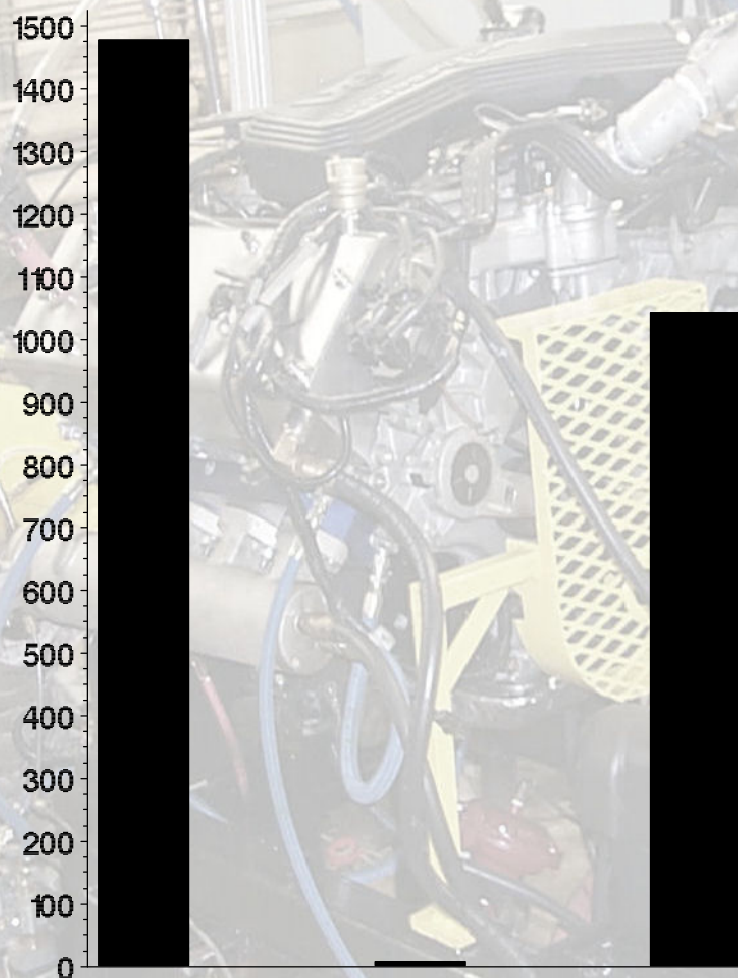
Status of Reported Tests



Report
Period

T12

Candidate Precision as Represented by Pooled S



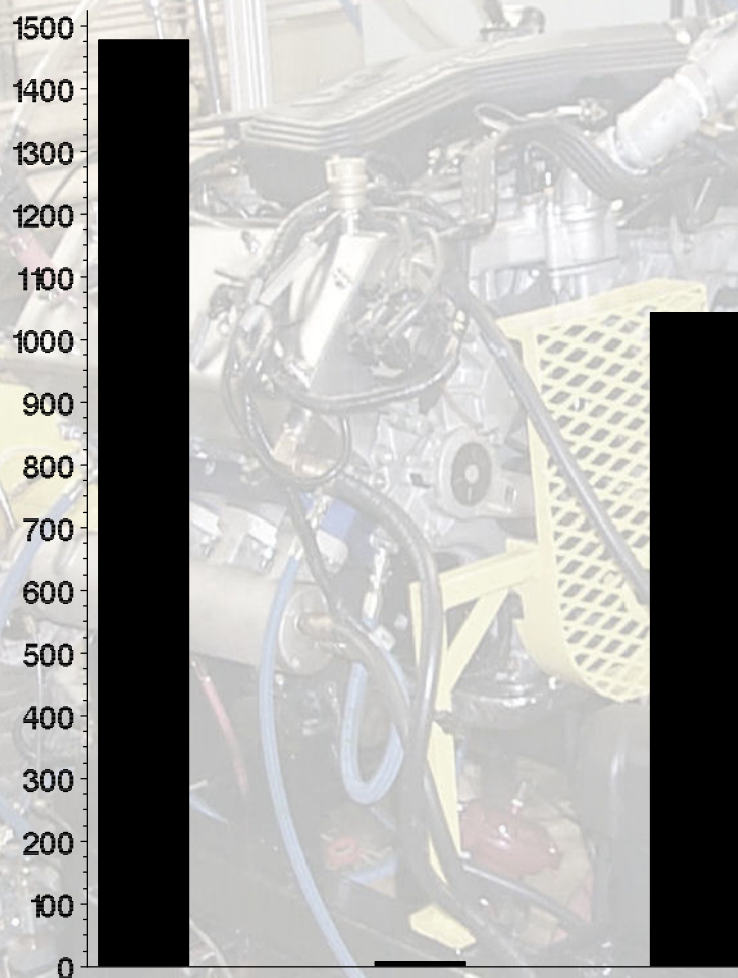
All OCT 2011 APR 2011 OCT 2010 APR 2010

Report
Period

■ MACKMER

T12

Candidate Precision as Represented by Pooled S



All OCT 2011 APR 2011 OCT 2010 APR 2010

Report
Period

■ MACKMER