



Volvo/Mack CPD Report

T8/T11/T12

Volvo/Mack CPD Report Contents

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Volvo/Mack T11/T12 Rings

New Top Ring (Batch V) Update

- New supplier (Federal Mogul)
- Should be at TEI around September 5th
- This is Federal Mogul's version of the production E7 Mahle produced ring
- FM's ring is in ~70% of the trucks from this E7 engine era
- FM's comments
 - Plasma spray is not consistently uniform
 - Hard to repeat the process
- This coating is a very repeatable FM proprietary electroplate coating
- The crown peak was to be held on the high side of the specification
- Numerous inspections are performed during the manufacture of the rings
 - 100% inspection on visual appearance, width, side angle, gap and tension
- No photographs were allowed during my visit



Volvo/Mack T11/T12 Cylinder Liner Part # 509GC471 (Batch "T")

- TEI has approximately 2500 of these liners
- What are the plans for them?



Volvo/Mack T11/T12 Rod Bearings and Ring Weights

- TEI has been pre-weighing these bearings and rings for quite sometime
- None have ever been rejected for weight
- Data is not useful to the labs for test pre-weight
- TEI would like eliminate this measurement
- Mack has no objection to this
- Any objections?



Volvo/Mack T11/T12 Kit Number on Parts

- The T11/T12 parts are etched with the kit number and a individual part serial number
- TEI would like to go to just an individual serial number and delete the kit number from the individual parts
- Any objections?



Volvo/Mack T11/T12

Volvo Price Increases

- In the past months we have received a price increase on almost every part every time we order from Volvo
- Some are significant
- Examples:
 - T8 heads
 - April 2014 - ~\$1000
 - August 2014 - ~\$1800 (+80%)
 - T11/T12 Valve Yokes
 - June 2014 - ~\$15
 - August 2014 - ~\$85 (+566%)



Volvo/Mack Kit Parts Inventory

Volvo/Mack Critical Parts Inventory

Part Description	Test Type	Part Number	Batch/Date	In Stock	Rejects
Cylinder Liner	T8, T11, T12	509GC471	T	2694	12
			U	0	12
			V	2813	11
Piston Crown	T11, T12	240GC5125M	Apr-12	151	1617
			A	246	0
Piston Skirt	T11, T12	240GC5119M	Apr-12	823	963
Piston Assembly (includes crown and skirt)	T8	215SB232A	N/A	18	0
Top Ring	T8, T11, T12	349GC3107	T	0	20
			U	2293	65
2nd Ring	T8, T11, T12	349GC3108	S	1969	240
Oil Ring	T8, T11, T12	350GC343	S	2154	10
Piston Pin	T8, T11, T12	182GC2223	Sep-13	1260	36
Snap Ring	T8, T11, T12	97AX127	Sep-13	4060	0
Connecting Rod Bearing (sets)	T8, T11, T12	62GB2396A	X	1308	288
Main Bearing (sets)	T8, T11, T12	57GC387	O	217	42
*New Volvo part number		*25503508	P	600	0



Volvo/Mack Miscellaneous Parts Inventory

TEI Mack Miscellaneous Parts Inventory			
Test Type	Part Description	Part Number	In Stock
T8	Injection Pump "calibrated"	313GC5212P16X	6
	Injector Nozzle	736GB343P2X	18
T11	EGR Cooler	19GBX52	12
	Injection Nozzle	736GB411M2	60
	Modine Intercooler	5424-03928031	0
	Turbo Small	631GC5145M3	16
T12	EGR Cooler	28GB519	0
	Injection Nozzle	736GB419M3	173
	Modine Intercooler	5424-1A166566D	4
	Turbo Small	631GC5176CM7	0
T11 and T12	Camshaft Kit	57GC2209A	0
	Cylinder Head - Low Swirl	732GB3499M	0
	Electronic Actuator	9MS42	1
	Engine - Bare Block	239GB5551M	0
	Engine - Basic Engine	86SB3536N	1/1
	Exhaust Manifold Assembly (front and rear)	M10104GC5164M	6
	Fuel Injector Line	HL69-151	181
	Fuel Injector Line	HL69-152	180
	Full Flow Oil Filter	485GB3236	4
	High Temperature Hose	3101632M	749
	Intake Manifold Assembly	M10105GCX4332/5212	1
	Lifter Assembly	72GC373A	0
	Machine Elbow	454GC5236	16
	Oil Cooler End Caps	TEI-T12OCEC	0
	Oil Filter Housing	27GB528M2	4
	Oil Pump Assembly - Low Flow - 9-tooth internal gears	315GC465BM	15
	Piston Connecting Rod	367GC4243M2	250
	Short EGR Exhaust Probe	TEGR0005	19
	Turbo Gasket	TEIEX201064AM	54
	Turbo Large	3801847R	0
Venturi	762GBX433SS	0	



Questions ?

