

Sulfation Effect



Test Procedure



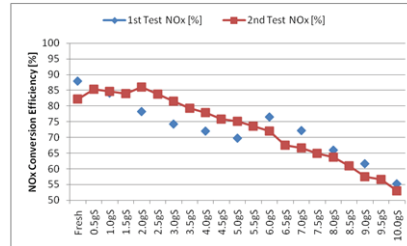
Sulfur loading

Sulfur loading mode	Mode	
	Engine condition	2000rpm, 50Nm (R/L = 8/352sec X 15cycle)
	SO2 injection mass flow	0.07754 L/min

E/B NEDC 평가

	Mode
	EUDC X 3
Pre-condition mode	EUDC X 3
Test mode	E/B 모사 NEDC

Test Results



	1st Test NOx [%]	2nd Test NOx [%]
Fresh	87.9	82.2
1.0gS	84.1	84.6
2.0gS	78.3	86.0
3.0gS	74.2	81.5
4.0gS	72.0	77.9
5.0gS	69.8	75.2
6.0gS	76.5	72.1
7.0gS	72.2	66.7
8.0gS	65.9	63.7
9.0gS	61.6	57.5
10.0gS	55.2	52.9

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deSulfation Effect



Test Procedure

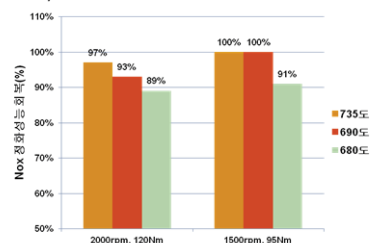


Test Condition

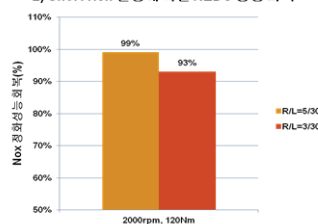
		Test Condition	
Fully deSOx	dePM	2000rpm, 50Nm, dePM(480sec)	
	deSOx	2000rpm, 120Nm, LNT Heat-up(43sec)+deSOx(R/L=9/30*50회)	
1g/L Sulfur Loading		2000rpm, 50Nm, with SO2 Gas Injection, deNOx(R/L=8/172*30cycle)	
deSOx	(1) 엔진조건변경 deSOx	dePM → 2000rpm, 50Nm, dePM(480sec) deSOx → 2000rpm, 120Nm, LNT Heat-up(43sec)+deSOx(R/L=3, 5, 9/30*50회)	
		dePM → 2000rpm, 50Nm, dePM(480sec) deSOx → 1500rpm, 95Nm, LNT Heat-up(43sec)+deSOx(R/L=6, 10, 15/30*50회)	
	(2) Short Rich deSOx	dePM → 2000rpm, 50Nm, dePM(480sec) deSOx → 2000rpm, 120Nm, LNT Heat-up(43sec)+deSOx(R/L=3, 5/30*50회) >>> LNT Heat-up target TEMP. Control	

Test Results

1) DeSOx 엔진 조건 변경에 따른 NEDC 성능 회복



2) Short rich 변경에 따른 NEDC 성능 회복



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