Misfire Monitoring Operation - Discovery								
Component/ System	Fault Codes	Monitoring Strategy Description	Malfunction Criteria	Threshold value	Secondary Parameter	Enable Conditions	Time Required	MIL Illumination
Misfire	P0301 to P0308 P0300 P1300	crankshaft speed fluctuation multiple misfire	Federal Test Procedure (FTP) emissions Threshold	> 1.875 %/ 1000 revolutions	engine speed load change (after start) speed change (after start) engine load rough road (ABS) gear change traction control transfer gears re-enablement delay (not active after engine start)	520 < rpm < 5400 < 1.20 ms/rev (< 130.8 ms/rev) < 4000 rpm/sec (< 20 000 rpm/sec) Positive not set not active not active high range 20 revolutions	1000 revolutions up to twice in one drive cycle/ continuous	two driving cycles
			catalyst damage	8.6 to 16.8 % at 600 rpm 7.4 to 14.6 % at 1000 rpm 2.0 to 10.7 % at 2000 rpm 1.9 to 9.9 % at 3000 rpm 1.8 to 8.3 % at 4000 rpm 1.8 to 5.0 % at 5000 rpm		200 revolutions/ continuous	immediately

If the above table does not include details of the following enabling conditions: - IAT, ECT, vehicle speed range, and time after engine start-up then the state of these parameters has no influence upon the execution of the monitor.

Misfire Monitoring Operation – Range Rover								
Component/ System	Fault Codes	Monitoring Strategy Description	Malfunction Criteria	Threshold value	Secondary Parameter	Enable Conditions	Time Required	MIL Illumination
Misfire	P0301 to P0308 P0300 P1300	crankshaft speed fluctuation multiple misfire	FTP emissions threshold	> 2.0 %/ 4000 ignitions	engine speed load change speed change engine load rough road (ABS) traction control transfer gears time after start	520 < rpm < 5400 < 0.10 ms/ignition < 720 rpm/sec positive not set not active high range > 5.0 sec	1000 revolutions/ continuous	two driving cycles
			catalyst damage 4.0 litre 4.6 litre	4.0 % to 15.9 % 3.8 % to 19.3 % for the speeds and loads encountered during the FTP			200 revolutions/ continuous	immediately