

# TA-1 Visual Inspection for Generator Set

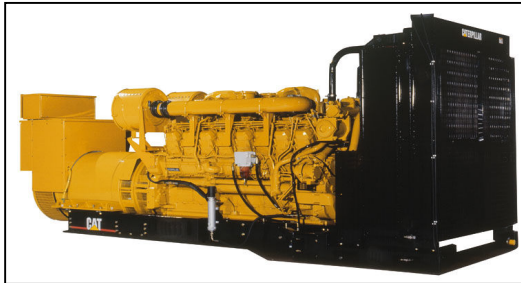
SMCS - Job Code - 540 Component Code - 753S

Tractors Malaysia



**CATERPILLAR®**

Sime Darby Industrial Sdn Bhd  
(Tractors Malaysia)



Customer : Turbo Services  
Address  
Contact

Serial Number :	S2P00195	Inspector :	A.FUAD/ZULKIFLI	Temperature :	
Model :	3516B	Work Order :	110040220	Time :	
Engine S/N:	S2P00195	SMU:	1.75 HR	Date :	04.07.2017
Manufacturer :	CAT			Unit Location:	PKFZ-KLANG

**Note: Review Equipment & S-O-S History and check for Active Service Letters prior to inspection.**

## Status of the Generator Set

The status recommendation of your Generator Set is:

**Normal**

# Visual Inspection for Generator Set

Status assessment    ✓ – Normal    M – Monitor    A – Action    Blank – Not Applicable

## 1. Prepare Generator Set Inspection

#	Status	Description	Comments
1.1	Normal	Prepare the Generator Set for the inspection	
1.2	Normal	Perform walk-around inspection	
1.3		Download fault codes	
1.4		Observe engine exhaust colors	
1.5		Listen for unusual noises (engine & driven equipment)	
1.6			
1.7			
1.8			
Item No.	Additional Comment		

**2. Lower-Level Inspection**

#	Status	Description	Comments
2.1	Normal	Mounts, Isolators, supports & Rails	
2.2	Normal	Engine Oil Pan	
2.3	Normal	Crankshaft Vibration Damper	
2.4		Alternator, Pulleys, Belts & Tensioner	
2.5	Normal	Water Pump(s)	
2.6	Normal	Oil Filters, Filter Bases, Cooler & Lines	
2.7	Normal	Fuel Filters, Fuel Lines, Pumps & Filter Bases	
2.8	Normal	Engine Block	
2.9		Engine Oil Level - check	
2.10		Starter Motor(s)	AIR-STARTING MOTOR
2.11		Jacket Water Heater	
2.12		Inspect Battery Cables and Battery Connections	
2.13	Normal	Engine/Driven Equipment Coupling	
2.14		Fuel Day Tank	
2.15		Fuel Water Separator - Check	
2.16		Prelube Pump	
2.17		Speed Sensor(s)	
2.18			
2.19			
2.20			
Item No.	Additional Comment		

### 3. Upper Level Inspection

#	Status	Description	Comments
3.1	Normal	Air Cleaner(s) & Pre-cleaner(s)	
3.2	Normal	Air Cleaner(s) Service Indicator	
3.3	Normal	Turbocharger(s)	
3.4		Intake Manifold, Aftercooler, JWAC/SCAC air cooler	
3.5	Normal	Exhaust Manifold(s)	
3.6		Flexible Exhaust Coupling	
3.7	Normal	Cylinder Head(s) & Valve Cover(s)	
3.8	Normal	Cylinder Head Grounding Stud	
3.9		Cooling Fan, Fan Guard & Shroud	
3.10		Upper & Lower Radiator Lines, Boost Air Lines & Aftercooler Lines	
3.11		Radiator Core - Check for Debris	
3.12		Fuel Cooler Core - Check for Debris	
3.13		Coolant Level - Check	
3.14		Radiator Cap	
3.15			
3.16			
3.17			
Item No.	Additional Comment		
	POWER-UP AND RETREIVE ET REPORT/PSRT.		

#### 4. Generator Inspection

#	Status	Description	Comments
4.1		Generator	
4.2		Generator Set Vibration Isolators	
4.3		Generator Coupling Guard	
4.4		Generator Coupling	
4.5		Generator Leads	
4.6			
4.7			
4.8			

Item No.	Additional Comment

#### 6. Site Conditions

#	Status	Description	
5.1		Ambient Temperature	
		NORMAL: -18° to 32°C (0° to 90°F)	
		MONITOR: 32° to 46°C or -18° to -29°C (90° to 115°F or 0° to -20°F)	
		ACTION: Above 46°C or Below -29°C (Above 115° or Below -20°F)	
5.2		Altitude	
		NORMAL: 0 to 1524 m (0 to 5000 ft)	
		MONITOR: 1524 to 3048 m (5000 to 10,000 ft)	
		ACTION: Above 3048 m (Above 10,000 ft)	
5.3		Haul Road Grade	
		NORMAL: Flat	
		MONITOR: Mild	
		ACTION: Steep	

5.4		Haul Road Condition	
		<b>NORMAL:</b> Positive Banking, Gradual Turns, Good Erosion Control	
		<b>ACTION:</b> Negative Banking, Sharp Turns, Poor Erosion Control	
5.5		Humidity	
		<b>NORMAL:</b> Below 25%	
		<b>MONITOR:</b> 25 to 60%	
		<b>ACTION:</b> Above 60%	
5.6		Air Quality	
		<b>NORMAL:</b> No Dust	
		<b>MONITOR:</b> Light Dust	
		<b>ACTION:</b> Heavy Dust	
5.7		Underfoot Condition	
		<b>NORMAL:</b> Dry Flat Surface	
		<b>MONITOR:</b> Moderate Grades, Mixture of Muddy / Dry Surfaces	
		<b>ACTION:</b> Steep Grades, Muddy, Snow, Ice	
5.8		Machine Utilization	
		<b>NORMAL:</b> 0 to 10 Hours	
		<b>ACTION:</b> Above 10 hours	
5.9		Equipment Role	
		<b>NORMAL:</b> Utility	
		<b>MONITOR:</b> Support	
		<b>ACTION:</b> Production	
5.10		Working Material	
		<b>NORMAL:</b> Uncompacted, Low Abrasion	
		<b>MONITOR:</b> Moderately Compacted, Moderate Abrasion	
		<b>ACTION:</b> High Abrasion, Compacted, Dense	
5.11		Maintenance Practices	
		<b>NORMAL:</b> Excellent	
		<b>MONITOR:</b> Good	
		<b>ACTION:</b> Poor	

5.12		Primary Industries	
5.13			
5.14			
5.15			
<b>Item No.</b>		<b>Additional Comments</b>	
<b>Other Remarks</b>			