



Number: TSB-FC-2015-026 CS7000

Symptom: Damage to catalytic converter and/or exhaust wrap

Date: July 14th, 2015

Urgency: General

Author: Aaron Clark

Urgency:



HIGH: Rework needs to be done immediately



MEDIUM: Rework needs to be done by next possible occasion



LOW: Rework to be done if necessary



GENERAL: General information

SYMPTOM:

Damage to catalytic converter and/or exhaust wrap.

PRODUCTS:

CS7000 LP & Petrol | Haram Captor II

Models 56509000, 56509003, 56509006, 56511000, 56511001, 56511002, 56384409

SYSTEM:

Engine & Exhaust System

ISSUE:

Continued operation of a poorly performing engine caused by misfiring or not following the recommended scheduled engine maintenance can result in exhaust conditions which could overheat and damage the catalytic converter and/or exhaust wrap.

CAUSE:

Regular scheduled maintenance as outlined in the Operators Manual and Engine Service Manual must be performed to prevent poor engine performance. Lack of scheduled maintenance such as replacement of the air filter and spark plugs can lead to incomplete combustion creating exhaust conditions that could overheat and damage the catalytic converter and/or exhaust wrap.

PRODUCTION CORRECTIVE ACTIONS:

Additional warnings have been added to the Operators Manual and Service Manual reinforcing the importance of regularly scheduled engine maintenance.



CAUTION

If the engine misfires or runs rough, stop engine operation and have machine serviced by a qualified technician. Continued operation under this condition may result in damage to the engine, catalytic converter or other machine components.



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PRODUCTION SOLUTION IMPLEMENTATION DATE

Implementation Date: July 17th, 2015

FIELD CORRECTIVE ACTIONS: Perform regular engine maintenance scheduled as outline in the Kubota Engine Service Manual.

3. MAINTENANCE CHECK LIST

To maintain long-lasting and safe engine performance, make it a rule to carry out regular inspections by following the table below. (The schedule applies to an engine in use under normal conditions.)

[WG752-G/GL-E3, WG972-G/GL-E3]

Item	Daily	Service Interval						
		Every 50 hrs	Every 100 hrs	Every 200 hrs	Every 1 year	Every 1000 hrs	Every after 1000 hrs	Every 2 years
Checking engine oil level	☆							
Checking and replenish coolant	☆							
Checking air cleaner element	if necessary							
Checking LPG tank setting condition	if necessary							
Checking LPG fuel connector	☆							
Cleaning air cleaner element		☆						
Checking gasoline fuel hose and clamp bands		☆						
Checking LPG fuel hose and clamp bands		☆						
LPG fuel check		☆						
Checking battery electrolyte level		☆						
Cleaning spark plug			☆					
Checking fuel filter			☆					
Check fan belt tension and damage			☆					
Changing engine oil		★		☆				
Replacing oil filter cartridge		★		☆				
Checking LPG tank setting condition				☆				
Checking radiator hoses and clamp bands				☆				
* Replacing air cleaner element					☆			
Replacing gasoline fuel hose, clamp bands and fuel filter					☆			
Cleaning fuel tank inside					☆			
Cleaning water jacket and radiator interior					☆			
Replacing spark plug						☆		
Checking coolant hose of LPG vaporizer						☆		
Checking vacuum lock hose of LPG vaporizer						☆		
Draining tar						☆		
Checking valve clearance						☆		
Cleaning combustion chamber							if necessary	
Replacing intake air line								☆
Replacing breather hose								☆
Replacing LPG fuel hose and clamp bands								☆
Replacing coolant hose of LPG vaporizer								☆
Replacing vacuum lock hose of LPG vaporizer								☆
Checking primary chamber								☆
Checking air tight of secondary chamber								☆
Checking vacuum lock system								☆
Replacing radiator hoses and clamp bands								☆
Replacing battery								☆
Replacing ignition wires								☆
Changing radiator coolant (L.L.C.)					☆			

★ Change engine oil and replace oil filter cartridge after the first 50 hours of operation.

* Replace the element after 6 times cleaning.



CAUTION

- When changing or inspecting, be sure to level and stop the engine.

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[3] CHECK POINTS OF EVERY 50 HOURS



Cleaning Air Cleaner Element

- To clean the element, use clean dry compressed air on the inside of the element.
Air pressure at the nozzle must be under 210 kPa (2.1 kgf/cm², 30 psi).
- If the element is stained with carbon or oil, replace the element.

■ IMPORTANT

- Make sure the wing bolt for the element is tight enough. If it is loose, dust and dirt may be sucked, wearing down the cylinder liner and piston ring earlier and thereby resulting in poor power output.
- Do not overservice the air cleaner element.

■ NOTE

- Replace the element once a year or every 6th cleaning.

[4] CHECK POINTS OF EVERY 100 HOURS



Cleaning Spark Plug Gap

- Remove the spark plug, and remove carbon from the electrode with a wire brush or other tools.
- Measure the spark plug gap with a feeler gauge, and repair or replace the spark plug if the measured gap differs from the factory specification.
- Replace the spark plug if the electrode or the insulator is deformed or cracked.
- Tighten the spark plug with a plug wrench.

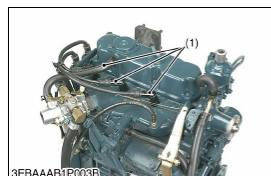
■ IMPORTANT

(When reassembling)

- Put the high tension cord cap inside the spark plug terminal firmly.
- Make sure that the cylinder number is corresponding to the high tension cord number.
- Wrong connection causes high temperature on catalytic muffler/converter.

Spark plug gap	Factory specification	WG752-G/GL-E3	1.0 to 1.1 mm 0.040 to 0.043 in.
		WG972-G/GL-E3	0.60 to 0.70 mm 0.024 to 0.027 in.
Spark plug	WG752-G/GL-E3		NGK BKR4E-11
	WG972-G/GL-E3		NGK BKR4E
Tightening torque	Spark plug		20 to 24 N·m 2.0 to 2.5 kgf·m 15 to 18 lbf·ft

[7] CHECK POINTS OF EVERY 1000 HOURS



Replacing Spark Plug

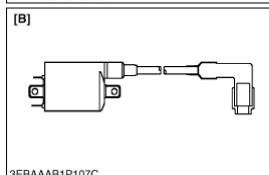
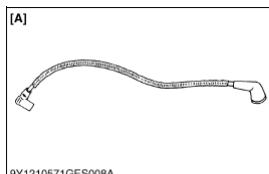
- Disconnect the spark plug cap (1).
- Remove the spark plug.
- Replace the new spark plug.
- Tighten the spark plug with a plug wrench.

■ IMPORTANT

(When reassembling)

- Put the high tension cord cap inside the spark plug terminal firmly.
- Make sure that the cylinder number is corresponding to the high tension cord number.
- Wrong connection causes high temperature on catalytic muffler/converter.

[9] CHECK POINTS OF EVERY 2 YEARS



Replacing Ignition Wires

- Replace high tension code.

■ IMPORTANT

(When reassembling)

- Put the high tension cord cap inside the spark plug terminal firmly.
- Make sure that the cylinder number is corresponding to the high tension cord number and the distributor terminal number. (WG752-G/GL-E3)
- Make sure that the cylinder number is corresponding to the high tension cord number. (WG972-G/GL-E3)
- Wrong connection causes high temperature on catalytic muffler/converter.

[A] WG752-G/GL-E3
[B] WG972-G/GL-E3

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