

# Maintenance Planner

# HITACHI

Hitachi Construction Machinery (Australia) Pty Ltd

BELL ADT B45E Pin 3.0 ~ *AEBA840EH01206045*  
 SN #: *L-02222* Hours: *8000*

Customer: *NAC*  
 Plant #: *K640*

As Required	
<input checked="" type="checkbox"/> Check & clean coolers	<input type="checkbox"/> Torque wheel nuts (Refer notes 1)
Every 10 Hours or Daily	
<input checked="" type="checkbox"/> Check engine oil, transmission oil, coolant on CDU	<input checked="" type="checkbox"/> Check auto greasing system grease level
<input checked="" type="checkbox"/> Check Hydraulic Oil Level and WDB oil levels on CDU	<input checked="" type="checkbox"/> Grease all remaining lube points as required
<input checked="" type="checkbox"/> Check for transmission oil leaks	<input checked="" type="checkbox"/> Check driveline and suspension fasteners
<input checked="" type="checkbox"/> Check transfer case oil level	<input checked="" type="checkbox"/> Check Operator controls, buzzers and instruments
<input checked="" type="checkbox"/> Check machine for fuel, water & oil leaks	<input checked="" type="checkbox"/> Check work lights, reverse alarm and horn operation
<input checked="" type="checkbox"/> Check tyre pressures	<input checked="" type="checkbox"/> Check park and service brakes
<input checked="" type="checkbox"/> Grease bonnet hinges	<input checked="" type="checkbox"/> Drain Water from Primary fuel filter (Check cold, drain before starting engine)
After First 100 Hours	
<input checked="" type="checkbox"/> Change primary fuel filter/water separator ( Racor )	<input checked="" type="checkbox"/> Drain and refill oil in all differentials & final drives
<input checked="" type="checkbox"/> Change Engine fuel filter	<input checked="" type="checkbox"/> Change hydraulic oil return filters
<input checked="" type="checkbox"/> Change WDB return filter	<input checked="" type="checkbox"/> Change HP Brake filter
<input checked="" type="checkbox"/> Check/Replace Air conditioning filter	<input checked="" type="checkbox"/> Replace transmission oil filters
<input checked="" type="checkbox"/> Change transfer case oil & filter	<input checked="" type="checkbox"/>
Every 500 Hours	
*****ORDER OF SERVICING TO BE CARRIED OUT IN STRICT ACCORDANCE WITH PSB731-2017-001 & SIB 1003-2017*****	
<input checked="" type="checkbox"/> Take PROBE oil samples from engine, transmission, transfer case, hydraulic tank and all differentials, final drives	<input checked="" type="checkbox"/> Check brake function, WDB brake wear indicator, park brake pad/ disk wear (Refer notes 2)
<input checked="" type="checkbox"/> Drain and refill engine oil and replace engine oil filter	<input checked="" type="checkbox"/> Clean fuel tank breather
<input checked="" type="checkbox"/> Check hydraulic tank oil level	<input checked="" type="checkbox"/> Check electrical connections & wire routing for chaffing
<input checked="" type="checkbox"/> Drain Water from the primary fuel filter	<input checked="" type="checkbox"/> Check fan blades and viscous hub for damage and leaks
<input checked="" type="checkbox"/> Check and clean transmission, transfer case, differential breathers	<input checked="" type="checkbox"/> Check suspension strut height & condition (Refer notes 2)
<input checked="" type="checkbox"/> Check brake accumulator function (Refer to Service Manual)	<input checked="" type="checkbox"/> Change hydraulic, WDB tank breather and check fuel tank breather filter
<input checked="" type="checkbox"/> Check coolant level & condition	<input checked="" type="checkbox"/> Check operator controls SDC, SSM, bonnet switch, HVAC functionality & buzzer
<input checked="" type="checkbox"/> Record & clear fault codes found on the CDU fault display page	<input checked="" type="checkbox"/> Check A/C receiver dryer site glass
<input checked="" type="checkbox"/> Check function of all lights and reverse buzzer	<input checked="" type="checkbox"/> Change Auto grease filter, check level in auto greasing system
<input checked="" type="checkbox"/> Change air conditioning fresh air filter	<input checked="" type="checkbox"/> Check software version installed and update to latest revision if required
<input checked="" type="checkbox"/> Grease all remaining lube points as required	<input checked="" type="checkbox"/> Check transfer case oil level
<input checked="" type="checkbox"/> Check transmission for oil leaks and level	<input checked="" type="checkbox"/> Check Fan Purge operation and nozzle alignment (Bell SB1039-2018)
<input checked="" type="checkbox"/> Check all hydraulic hoses for leaks, chaffing, routing	<input checked="" type="checkbox"/> Check and adjust bin shock pad clearance (see serv manual for specs)
<input checked="" type="checkbox"/> Check condition of all Slip joints, cross and rollers (Replace as required)	<input checked="" type="checkbox"/> Clean and inspect Hydraulic/ Transmission cooler fan
<input checked="" type="checkbox"/> Lubricate PTO universal drive shaft with Hi Temp grease	<input checked="" type="checkbox"/> Check Fan belts, including idlers and pulleys
Every 1000 Hours	
*****ORDER OF SERVICING TO BE CARRIED OUT IN STRICT ACCORDANCE WITH PSB731-2017-001 & SIB 1003-2017*****	
<input checked="" type="checkbox"/> Change primary fuel filter/water separator (Racor )	<input checked="" type="checkbox"/> Change hydraulic oil return filters
<input checked="" type="checkbox"/> Change secondary fuel filter on engine	<input checked="" type="checkbox"/> Check/Clean transmission, transfer case breathers
<input checked="" type="checkbox"/> Clean fuel inlet screen	<input checked="" type="checkbox"/> Check coolant condition
<input checked="" type="checkbox"/> Change transmission oil filters	<input checked="" type="checkbox"/> Grease cab tilt cylinder & park brake eccentric shaft
<input checked="" type="checkbox"/> Change transfer case filter	<input checked="" type="checkbox"/> Change Pneumatic air filter
<input checked="" type="checkbox"/> Check oil level in all diffs & final drives	<input checked="" type="checkbox"/> Change HP Brake filter
<input checked="" type="checkbox"/> Change outer air cleaners	<input checked="" type="checkbox"/> Check/Clean fuel tank breather
<input checked="" type="checkbox"/> Inspect belt tensioner condition	<input checked="" type="checkbox"/> Grease prop shaft slip joint Between drop box and osc joint
<input checked="" type="checkbox"/> Check condition of all drive shafts	<input checked="" type="checkbox"/> Replace Hydraulic and WDB Tank Breathers
<input checked="" type="checkbox"/> Carry out Oscillation joint checks as per (Bell SB2010-1004)	<input checked="" type="checkbox"/> Change WDB return filter
<input checked="" type="checkbox"/> Change HP hydraulic filter (where applicable)	<input type="checkbox"/>
Every 2000 Hours	
*****ORDER OF SERVICING TO BE CARRIED OUT IN STRICT ACCORDANCE WITH PSB731-2017-001 & SIB 1003-2017*****	
<input type="checkbox"/> Check & adjust engine valve and Jacobs valve clearances (refer serv manual)	<input checked="" type="checkbox"/> Replace transfer case, transmission and fuel tank breather
<input checked="" type="checkbox"/> Change transfer case oil	<input checked="" type="checkbox"/> Check operation of seat belt
<input checked="" type="checkbox"/> Change inner air cleaner	<input checked="" type="checkbox"/> Grease transmission to transfer case prop shaft
<input checked="" type="checkbox"/> Clean WDB & Brake charge Suction screens	<input checked="" type="checkbox"/> Change oil in all differentials & final drives (Refer notes 3 & 4)
<input checked="" type="checkbox"/> Change WDB oil ensure brake hubs are drained add Lubrizol additive	<input type="checkbox"/>
Every 4000 Hours	
*****ORDER OF SERVICING TO BE CARRIED OUT IN STRICT ACCORDANCE WITH PSB731-2017-001 & SIB 1003-2017*****	
<input checked="" type="checkbox"/> Check air conditioner pulley bearing and inspect pulley grooves	<input checked="" type="checkbox"/> Check jockey pulley bearing(s)
<input checked="" type="checkbox"/> Replace fan belts (Refer notes 2)	<input checked="" type="checkbox"/> Change transmission oil and filters (Refer notes 3)
<input checked="" type="checkbox"/> Clean Secondary Steering Strainer	<input checked="" type="checkbox"/> Check suspension accumulator pressures
<input checked="" type="checkbox"/> Clean Hydraulic, emergency steering and WDB tank suction screen	<input checked="" type="checkbox"/> Inspect and lubricate orbital valve/ steering spline
<input type="checkbox"/>	<input checked="" type="checkbox"/> Change inner air cleaner
Every 6000 Hours	
*****ORDER OF SERVICING TO BE CARRIED OUT IN STRICT ACCORDANCE WITH PSB731-2017-001 & SIB 1003-2017*****	
<input type="checkbox"/> Change hydraulic oil (Refer notes 3)	<input type="checkbox"/> Customers discretion- swap Final drive gear set Left to right and reset wheel bearing tension as per Note 3- recommended to extend FD Life
<input type="checkbox"/> Change Engine Coolant	<input type="checkbox"/>
Every 12000 Hours	

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All of the above



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Required Parts								
Highlighted in grey indicate they are included in Parts / Lube Kits								
Item	Part No	Initial 100 Hour (10)	500 Hour (6)	1000 Hour (12)	2000 Hour (18)	4000 Hour (23)	6000 Hour (20)	12000 Hour (23)
FILTER KIT PART NUMBERS		364115	364116	364117	364119	364119	364119	364119
Engine Oil Filter	DC223335		1	1	1	1	1	1
Engine Oil Filter	DC222896		1	1	1	1	1	1
Air Conditioning Fresh Air Filter	227985	1	1	1	1	1	1	1
Auto Grease Filter (If Equipped)	262947				1	1	1	1
Fuel Filter (Racor)	207694	1		1	1	1	1	1
Fuel Filter (on engine)	DC222520	1		1	1	1	1	1
WDB Return filter	228253	1		1	1	1	1	1
HP Brake filter	228255	1		1	1	1	1	1
Transfer Case Filter	222219	1		1	1	1	1	1
Transfer Case Breather	223816				1	1	1	1
Remote Transmission Filters	29558329	1		1	1	1	1	1
Transmission Breather	223816				1	1	1	1
Hydraulic Filter	228254	1		1	1	1	1	1
Fuel Tank Breather	220010				1	1	1	1
Hydraulic Tank & WDB Breather	210881			2	2	2	2	2
Belt V-Ribbed 2642mm	DC223073				1	1	1	1
Belt V-Ribbed 1493mm	DC222839				1	1	1	1
Rocker Cover Gasket	DC140545				1	1	1	1
Air Cleaner element (Outer)	226779			2	2	2	2	2
Air Cleaner element (Inner)	226780				2	2	2	2
Air Drier Filter	226000			1	1	1	1	1
Probe Oil Analysis Kit	OIL SAMPLE		14	14	14	14	14	14
Cross and roller ass	221637	2 Piece-As Required 6000 hr recommended						
Cross and roller ass	221877	2 Piece - As Required 6000 hr recommended						
Cross and Roller Ass	206765	2 Pieces - As Required 6000 hr recommended						
Idler pulley	DC222873	As Required						
System Capacity								
LUBE KIT PART NUMBERS			HCA- B45E III-500L	HCA- B45E III- 1000L	HCA- B45E III- 2000L	HCA- B45E III- 4000L	HCA- B45E III- 6000L	HCA- B45E III- 4000L
FUCHS TITAN CARGO MAXX SAE 10w40 (20 Litre Pack)		39L						
Engine – OM471LA- MB228.5 Approved – 39L	3872020		2	2	2	2	2	2
CASTROL TRANSYND (20 Litre Pack)		48L						
Transmission- Allison TE295 Approved – 48L	115538					3		3
FUCHS TITAN SUPERGEAR LS SAE 80W-90 (20 Litre Pack)		13.7L						
Drop Box – 13.7L	2137020	1			1	1	1	1
FUCHS TITAN ATF 5500 (20 Litre Pack)		120L						
Wet Disk Brake Cooling – 120L	4845020				6	6	6	6
FUCHS TITAN SUPERGEAR LS SAE 80W-90 (205 Litre Pack)		195L						
Axles Front/ Middle/ Rear – 56L x 3	2137205	1				1		1
Final Drives Front/Middle/Rear – 4.5L x 6								
FUCHS TITAN ATF 5500 (20 Litre Pack)		170L						
Hydraulic System – 170L	4845020						9	9
GLYSANTIN G40 (20 Litre Pack)		65L						
Cooling Do not mix with Coolguard – 65L	AC5040-50 20L						4	4
IPAC 9130 (5 Litre Pack)		3L						
Wet disk brake cooling additive	HI8-2100-0005				1	1	1	1
Based on Oil analysis results, Oil change intervals may need to be adjusted for your operating conditions. Consult your local Hitachi / Deere Dealer.								
Notes								
1. Torque all wheel nuts to 560Nm. (413 ft lb.) after the first 5 hours of operation and again after 50 hours of operation. Repeat this procedure if the wheels are changed. Apply anti seize to the wheel studs (and washers if equipped)								
2. Refer to service manual for specs and procedure								
3. Subject to using factory approved oils and carrying out oil sampling every 500hrs								
4. Initial 2000hr service only then every 4000hr service								

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## Completed By

Name

Z.D/J.W/J.B

Signature

[Signature]

Date

21/11/23

## Reviewed By

Name

John Meyer

Signature

[Signature]

Date

23/11/23