


Evaluation Mining Excavator		<a href="http://www.mevas.eu">www.mevas.eu</a>	
Customer:	J.W.	vers 12/11	
Date:	17.06.2014		
Machine / type:	CAT 5110B	Hour reading:	34667
Serial No.:	AAA003XX	Year:	2002
Inspector:	Bühn	stick length in m:	3.50m
CE <input type="checkbox"/>	air con <input checked="" type="checkbox"/>	boom check valve <input type="checkbox"/>	Parts book <input type="checkbox"/> Op-Manual <input type="checkbox"/>
auto lube <input type="checkbox"/>	stick check valve <input type="checkbox"/>	boom ME <input checked="" type="checkbox"/>	front shovel <input type="checkbox"/>
extendable tracks <input checked="" type="checkbox"/>	auxiliary lines <input type="checkbox"/>	pre-heater engine <input type="checkbox"/>	quick refuelling <input checked="" type="checkbox"/>
<b>cab</b>	<i>no cab guard mounted</i>	cab door	<i>rust penetration</i>
seat	<i>console a bit shaky</i>	windows	<i>Plexi on RHS, LHS and rear</i>
switches / controls	<i>good except heat control</i>	wipers	<i>not operating</i>
gauges	<i>good</i>	floor mats	<i>worn</i>
aircon / heat	<i>not working (1)</i>	cab structure	<i>good</i>
<b>engine</b>	CAT 3412	serial No.:	80M046XX
leaks	<i>(3)</i>	noises	<i>normal</i>
oil condition	<i>good, maybe 200 hrs old</i>	blow by	<i>normal</i>
exhaust	<i>good</i>	belts	<i>good</i>
smoke	<i>normal</i>	cooling system	<i>good</i>
radiators	<i>good</i>	coolant condition	<i>good, blue</i>
<b>visual inspection exterior</b>		sheet metal	<i>(4)</i>
chassis	<i>X-frame good (7)</i>	counterweight	<i>good</i>
engine doors	<i>good</i>	compartments	<i>some slight dents</i>
steps, hand rails	<i>chassis steps modified</i>	bumpers & catwalk	<i>good</i>
boom	<i>good</i>	lights	<i>all missing</i>
stick	<i>dents on front upper side</i>	paintwork	<i>fair, faded</i>
final drives	<i>good (6)</i>	auto lube	<i>N/A</i>
<b>hydraulics</b>		boom cylinders	<i>both leaking</i>
hoses & lines	<i>(8)</i>	stick cylinder	<i>good</i>
swifel joint	<i>good, dry</i>	bucket cylinder	<i>good, no damages</i>
pump noises	<i>normal</i>	oil level / condition	<i>good</i>
valve blocs	<i>just small leaks</i>	swing motors	<i>good, bit play in gear</i>
<b>functional test</b>		swing brake	<i>good, operates well</i>
pins boom	<i>(9)</i>	pump noises	<i>normal</i>
pins stick	<i>(10)</i>	slew ring play	<i>minor</i>
pins bucket / linkage	<i>visually OK</i>	drive train	<i>only running slow mode</i>
smart boom	<i>N/A</i>	stall test	<i>N/A</i>
cycle time boom lift:	<i>7.0 sec</i>	cycle time 360° turn:	<i>12.5 sec</i>
<b>bucket/shovel</b>		welds	<i>just some small cracks</i>
bucket width	<i>2.55m</i>	general condition	<i>60% remaining life</i>
bucket volume	<i>?</i>	GET remaining life	<i>90% good, ESCO 12C</i>
<b>U/C</b>	remaining life %		remaining life %
bushings	<i>5% / 25%</i>	bottom rollers	<i>(11)</i>
sprockets	<i>estimated at 90%</i>	shoes	<i>100%</i>
track links	<i>100%</i>	shoe width in mm:	<i>28"</i>
idlers	<i>35% / 25%</i>	grouser heighth mm:	<i>50mm</i>
carrier rollers	<i>100%</i>	ext.track pins OK?	<i>yes</i>
<b>problems, details</b>	<i>(1) heater-A/C control panel damaged, system does not work at all</i>		
	<i>(2) roof window and front screen sealed with silicon, front window can't be opened therefore</i>		
	<i>(3) slight leaks on oil pan and accessory drive, slight fuel leak on water separator</i>		
	<i>(4) sheet metal between engine compartment and valve bloc has been modified. The cover above the hydraulic tank appears to be NON-OEM. Sheet metal RHS on oil tank to be fitted.</i>		
	<i>(5) stick has dents on top front part, can probably solved with re-plating</i>		

(6) final drives have some slight traces of oil o inside covers, probably slightly leaking hoses

(7) covers beneath the chassis have been weld on to track frames, needs to be cut off for extending the tracks in work position.

**further comments, general condition**

(8) many hydraulic hoses are worn, some have been replaced by NON-OEM hoses. I would recommend to exchange all hydraulic hoses on this unit.

(9) main pin of boom good, cylinder pins have 8-10mm play

(10) stick pin is good but cylinder pins have 5-10mm play






































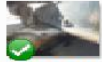




















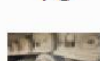










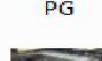


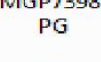
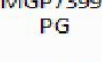
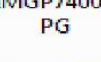
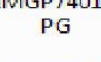
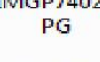
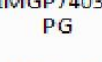
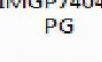
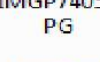
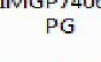
(11) rolers are almost new but on RHS four are leaking; LHS Roller 1 60%, Roller 6 20% good and roller 7 27% good. Full U/C report including measurement values can be provided on request.

**Component history if available:**

See attached Leighton-Document for component history.

In general the achine is i good condition for the hour level. There are no structural problems, the engine runs smooth and machine can be operated. The hydraulic system needs adjustment to reach full performance. The electric system needs attention.

**dimensions for transport L x W x H in meter:**

 IMGP7314.J PG	 IMGP7315.J PG	 IMGP7316.J PG	 IMGP7317.J PG	 IMGP7318.J PG	 IMGP7319.J PG	 IMGP7320.J PG	 IMGP7321.J PG	 IMGP7322.J PG
 IMGP7326.J PG	 IMGP7327.J PG	 IMGP7328.J PG	 IMGP7329.J PG	 IMGP7330.J PG	 IMGP7331.J PG	 IMGP7332.J PG	 IMGP7333.J PG	 IMGP7334.J PG
 IMGP7338.J PG	 IMGP7339.J PG	 IMGP7340.J PG	 IMGP7341.J PG	 IMGP7342.J PG	 IMGP7343.J PG	 IMGP7344.J PG	 IMGP7345.J PG	 IMGP7346.J PG
 IMGP7350.J PG	 IMGP7351.J PG	 IMGP7352.J PG	 IMGP7353.J PG	 IMGP7354.J PG	 IMGP7355.J PG	 IMGP7356.J PG	 IMGP7357.J PG	 IMGP7358.J PG
 IMGP7362.J PG	 IMGP7363.J PG	 IMGP7364.J PG	 IMGP7365.J PG	 IMGP7366.J PG	 IMGP7367.J PG	 IMGP7368.J PG	 IMGP7369.J PG	 IMGP7370.J PG
 IMGP7374.J PG	 IMGP7375.J PG	 IMGP7376.J PG	 IMGP7377.J PG	 IMGP7378.J PG	 IMGP7379.J PG	 IMGP7380.J PG	 IMGP7381.J PG	 IMGP7382.J PG
 IMGP7386.J PG	 IMGP7387.J PG	 IMGP7388.J PG	 IMGP7389.J PG	 IMGP7390.J PG	 IMGP7391.J PG	 IMGP7392.J PG	 IMGP7393.J PG	 IMGP7394.J PG
 IMGP7398.J PG	 IMGP7399.J PG	 IMGP7400.J PG	 IMGP7401.J PG	 IMGP7402.J PG	 IMGP7403.J PG	 IMGP7404.J PG	 IMGP7405.J PG	 IMGP7406.J PG
 IMGP7410.J PG	 IMGP7411.J PG	 IMGP7412.J PG	 IMGP7413.J PG	 IMGP7414.J PG	 IMGP7415.J PG	 IMGP7416.J PG	 IMGP7417.J PG	 IMGP7418.J PG