

Liebherr-Great Britain Ltd.

Service process and customer data		Machine and service assignment information			
Service process number 12113890	Date Oct 12, 2021	Machine 049965-1486/R922	Machine type R 922	Superordinate machine	
Customer/Company JOHN KELLY CONSTRN. SERVICES LTD		Operating hrs. 2030	Operating hrs. UC	Operating hrs. LC	Kilometers
Street LLANDDANIEL		Operation site street GLYN FARM			
Zip Code LL60 6DY	City ANGLESEY LL60 6DY	Operation site ZIP LL29 8RQ	Operation site CONWY - LL29 8RQ		
Customer order no. Verbal - Lisa		Sales order number 877051		Performing engineer Nathan STOREY	
Contact of the customer on site				Operation manager HAWORTH, Grant	
		Further engineers Antony ROSZKOWSKI			

Work carried out			
Action 10	Brief description Carry out multiple repairs	Whereabouts of removed parts Returned with service employee	Finished <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Action 20	Brief description TRAINING	Whereabouts of removed parts	Finished
Action 30	Brief description Finish off repairs	Whereabouts of removed parts No parts used	Finished <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Action 40	Brief description Finish off repairs	Whereabouts of removed parts Returned with service employee	Finished <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Time sheet									
Description	Day	Date / Time until		Date / Time until		h	Distance	Country	From place - to place Remark
Travel time	Fri	Nov 5, 2021	5:30 AM	Nov 5, 2021	7:30 AM	2:00	107 miles		Home to Site
Working time	Fri	Nov 5, 2021	7:30 AM	Nov 5, 2021	12:00 PM	4:30			
Break	Fri	Nov 5, 2021	12:00 PM	Nov 5, 2021	12:30 PM	0:30			
Working time	Fri	Nov 5, 2021	12:30 PM	Nov 5, 2021	5:00 PM	4:30			
Travel time	Fri	Nov 5, 2021	5:00 PM	Nov 5, 2021	7:00 PM	2:00	107 miles		Site to home
Travel time	Fri	Dec 10, 2021	6:00 AM	Dec 10, 2021	8:30 AM	2:30	80 miles		Home to site
Working time	Fri	Dec 10, 2021	8:30 AM	Dec 10, 2021	12:00 PM	3:30			
Break	Fri	Dec 10, 2021	12:00 PM	Dec 10, 2021	12:30 PM	0:30			
Working time	Fri	Dec 10, 2021	12:30 PM	Dec 10, 2021	4:00 PM	3:30			

For the execution of assembly and repair work, the overleaf listed delivery and payment conditions are valid. In the case of invoicing, the rates are taken as basis, which were valid at the time of the execution of the work. The customer confirms that the work has been carried out correctly and also the correctness of the above-mentioned time recording. Warranty orders can only be processed if the defective parts are immediately sent to our factory.

Attachments:
Details of the work carried out
Material overview

			Customer not on-site
Date	Signature engineer	Customer	Signature customer

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Details of the work carried out

Action 10	<p>Explanation of the work carried out</p> <p>Faults Reported: Carry replacement of seals on engine.</p> <p>Errors on display: None.</p> <p>Work carried out:</p> <ul style="list-style-type: none"> - Carried out replacement of crankshaft seal in flywheel side, Removed walk ways and hand rails. - Removed exhaust system and wiring. - Removed Hydraulic pump and pipe work. - Removed flywheel . - Taken photos of visible leak from crank shaft seal. - Removed crank shaft seal and replaced. <p>Note: Did not have correct tooling on van for removing and installing crankshaft seal.</p> <ul style="list-style-type: none"> - Installed fly wheel. - Installed Hydraulic pump and pipe work. - Bled hydraulic pumps. - Installed exhaust system and wiring. - Installed walkways and hand rails. - Started engine and carried out function of machine (ALL OK). <p>Task not completed due to running out of time, More test need to be carried out on the engine.</p>
Action 20	<p>Explanation of the work carried out</p>
Action 30	<p>Explanation of the work carried out</p> <p>.</p>
Action 40	<p>Explanation of the work carried out</p> <p>Work Carried out: Change engine oil, Replace seals on sump, change crank case breather and rocker gasket, change engine oil filter.</p> <ul style="list-style-type: none"> - Drained engine oil and changed seals on blanking plugs on sump, Carried out visual checks of seals when removed and found sealed washers to be all damage. - Changed crank case breather filter in rocker cover and replaced rocker cover gasket. - Changed engine oil filter and filled engine with oil. - Taken download of engine history. - Taken download of Master 5 error history. <p>Important Note: When I removed the belly plates from below the engine i noticed a lot of engine oil around the flywheel housing and the sump, I could see where oil that some of the oil had been leaking from the sump gasket next to the flywheel housing,The sump gasket needs to be replaced but to do this the engine needs removing from the machine, Also because incorrect tooling was used when replacing the crank shaft seal I recommend this be checked again and the seal be replaced and installed with correct tooling to eliminate this as a possible fault, I have attached photos to the job of the leaks that where visible, I Cleaned off the areas covered in oil and ran the engine for 1 hour when checked the areas again I could see small amounts of oil starting to come from the sump gasket next to the flywheel housing.</p>

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Material overview

Delivered new part

Sales order number 877051

Action	Pos.	Itemnumber	Item description	Quantity	QU	Serial number - New part
10	2	11066030	ENGINE OIL	1	ST	
10	3	5502096	EASY-CHANGE FILTER	1	ST	
10	4	11127112	CYLINDER HEAD GASKET	1	ST	
10	5	10330268	HYDRAULIC OIL	1	ST	
10	6	11127056	O-RING	1	ST	
10	7	11127087	SHEET GASKET	3	ST	
10	8	11127178	SHAFT SEAL	1	ST	
10	9	11123605	HEX SCREW	8	ST	
10	10	11002713	HEX SCREW	20	ST	
10	11	7363159	O-RING	1	ST	
10	12	11127111	SEAL	1	ST	
10	13	12690640	FILTER KIT	1	ST	

Additionally delivered material

No used material reported

Returned new part

No used material reported

Returned used part

No used material reported