

TA-Hydraulic

TA1

0 1 60 5

Inspection Number	12966393	Make	CATERPILLAR
Serial Number	LCS00470	Model	963D
Equipment Family	TRACK-TYPE LOADER	Asset ID	LCS00470
SMU	6623 Hours	Coordinates	0, 0, 0
Completed On	6/6/2023 3:42:32 PM	Inspector	Bryan RichterKessing
PDF Generated On	6/6/2023		
Supervisor	APR		

General Info & Comments

General info/Comments	NORMAL
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Prepare Machine for Inspection

1.1 Check with customer for operator complaints	NORMAL
1.2 Perform machine inspection preparation	NORMAL
1.3 Perform Site Safety and Pre-Start Inspection	COMPLETE
1.4 Download machine fault codes	PASS
1.5 Is the machine software including Product Link &&& VIMS Config files current with what is published in SIS?	YES
1.6 Check Product Link	YES
1.7 Observe engine exhaust colors	NORMAL
1.8 Listen for unusual noises	NORMAL

Lower-level Inspection

2.1 Final drives and sprockets	NORMAL
2.2 Carrier rollers	NORMAL
2.3 Track rollers	NORMAL
2.4 Front Idlers	NORMAL
2.5 Track shoes	NORMAL
2.6 Track links, pins, and bushings	NORMAL
2.7 Track roller frame	NORMAL
2.8 Equalizer bar	NORMAL
2.9 Pivot shaft	NORMAL
2.10 Bottom Guard	NORMAL

Middle-level Inspection

3.1 Steps and Handrails	NORMAL
3.2 Work Lights	NORMAL
3.3 Hood and Platform	NORMAL
3.4 Cooling Fan, Fan Guard and Shroud	NORMAL
3.5 Radiator, Aftercooler, Oil Cooler &&& Condenser	NORMAL
3.6 Upper and Lower Radiator Lines, Air Inlet Lines and Aftercooler Lines	NORMAL
3.7 Fuel Lines, Fuel Pump and Fuel Filter Base	NORMAL
3.8 Cylinder Head and Valve Cover	NORMAL
3.9 Precleaner and Air Cleaner	NORMAL
3.10 Turbocharger	NORMAL

Upper-level Inspection

4.1 Cab Exterior	NORMAL
4.2 Cab Interior	NORMAL
4.3 Battery &&& Cables	NORMAL

●	4.4 Power train and hydraulic oil filter compartment		NORMAL
●	4.5 Inspect Hydraulic Hoses		GOOD
●	4.6 Implement control valve		NORMAL
●	4.7 AC condenser, inspect		NORMAL
●	4.8 ROPS/FOPS		PASS
●	4.9 Radiator Cap		NORMAL
●	4.10 Precleaner		NORMAL
Check Lift and Tilt Cylinder Rod Drift			
●	5.1 Check Lift Cylinder Rod Drift		PASS
	Comments: 1/16" IN 3.5 MINUTES		
	5.1.1 Lift Cylinder Drift Observed	1/16 Seconds	
	5.1.2 Lift Cylinder Drift Specification	1/16 Seconds	
●	5.2 Check Tilt Cylinder Drift		PASS
	Comments: NO DRIFT OBSERVED		
	5.2.1 Tilt Cylinder Drift Observed	0 Seconds	
	5.2.2 Tilt Cylinder Drift Specification	0 Seconds	
Check Lift and Tilt Cylinder Cycle Times			
●	6.1 Check Lift Cylinder Cycle Times		PASS
	Comments: FLOAT FUNCTION DOES NOT WORK		
	6.1.1 Raise Cycle Time	7 Seconds	
	6.1.2 Power Lower Cycle Time	4 Seconds	
	6.1.3 Float Lower Cycle Time	0 Seconds	
●	6.2 Check Tilt Cylinder Cycle Times		PASS
	Comments: WITHIN SPECS		
	6.2.1 Dump at Max Height Observed	3 Seconds	
	6.2.2 Dump at Max Height Specification	3 Seconds	
	6.2.3 Tilt Back at Max Height Observed	3 Seconds	
	6.2.4 Tilt Back at Max Height Specification	3 Seconds	
	6.2.5 Tilt Back at Ground Level Observed	0 Seconds	
	6.2.6 Tilt Back at Ground Level Specification	0 Seconds	
Test Main Relief Valve Pressure			
●	7.1 Check Main Relief Valve Pressure		GOOD
	7.1.1 Main Relief Pressure Observed	3660 PSI	
	7.1.2 Main Relief Pressure Specification	3673 +/- 25 PSI	
Implement / Attachment Inspection			
●	8.1 Bucket, Lift Cylinders and Hoses		NORMAL
●	8.2 Lift arm attachment to frame		NORMAL
●	8.3 Bucket tilt cylinder		NORMAL
●	8.4 Tilt lever attachment to lift arm		NORMAL
●	8.5 Bucket linkage		NORMAL
●	8.6 Bucket wear plates		NORMAL
●	8.7 Side plates		NORMAL
●	8.8 Bucket edges, tips, and adapters		NORMAL
●	8.9 Ripper		N/A
●	8.10 Ripper cylinders		N/A
Obtain Hydraulic System Scheduled Oil Analysis			
●	9.1 Obtain Hydraulic System Oil Sample		YES (REQUIRES COMMENTS OR IMAGES ADDED)
	Comments: SAMPLED BOTH FINALS, COOLANT, ENGINE AND HYDRAULIC OILS		
Site Conditions			
●	10.1 Ambient Temperature in Engine Room		N/A
	10.1.1 (90&#amp;#176; to 115&#amp;#176;F or 0&#amp;#176; to -20&#amp;#176;F) - ACTION: Above 46&#amp;#176;C or Below -29&#amp;#176;C (Above 115&#amp;#176; or Below -20&#amp;#176;F)		
●	10.2 Altitude		NORMAL
●	10.3 Haul Road Grade		N/A
●	10.4 Haul Road Condition		N/A
●	10.5 Humidity		NORMAL
●	10.6 Air Quality		NORMAL
●	10.7 Underfoot Condition		NORMAL
●	10.8 Machine Utilization		NORMAL

●	10.9 Equipment Role	SELECT TO ADD TEXT
●	10.10 Working Material	NORMAL
●	10.11 Maintenance Practices	NORMAL