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TEST REPORT

REPORT NO : 2019MA0354

PAGE : 1 OF 24

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Applicant : ECOCLEAN TECHNOLOGY SDN.BHD.
12A-03, Wisma Zelan,
Jalan Tasik Permaisuri 2,
Bandar Tun Razak, Cheras,
56000 Kuala Lumpur,
Malaysia.

Manufacturer : Same as above.

Product : ECOCLEAN ENVIROMODULE

Reference Standard /
Method of Test : Manufacturer's Specification

Description of sample /
Description of Test
Specimen : Trademark(s)/Brand: AUSDRAIN
Serial Number: NA
Quantity: 3 units each model

Date Received of
Complete Application : 21 March 2019

Job No. : J20191390289

Description of Test
Results / Overall Test
Result : The test results for the submitted test samples are described in Page 2 of
this test report.

Issued Date : 03 April 2019

Approved Signatories;

(MOHD FAUZELY BIN MUSTAPA BAKARI)
Testing Executive



(MOHD FAIZAR BIN MUSTAFA)
Head
Mechanical & Automotive Section
Testing Services Department

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TEST RESULTS:

Tests	Measurement Units	Observations / Results		
		3 Partitions	4 Partitions	5 Partitions
1. Toughness Test using 120mm x 120mm footprint pad. Ultimate Compressive Load.	Load: kgf	234.2	578.2	624.5
	Deflection: cm	1.62	1.13	1.27
2. Toughness Test by uniformly distributed load. Ultimate Compressive Load.	Load: kgf	5551	5858	7516
	Deflection: cm	0.98	0.99	1.11
3. Fatigue Strength (5 cycles) a). Deflection (After 5 cycles of 4000kg in 10s duration per cycle). b). percentage of deformation	peak force	4000	4000	4000
	Load: kgf			
	deflection at peak force: cm	0.51	0.48	0.49
	%	0.33	0.22	0.22



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Photograph of Test Sample

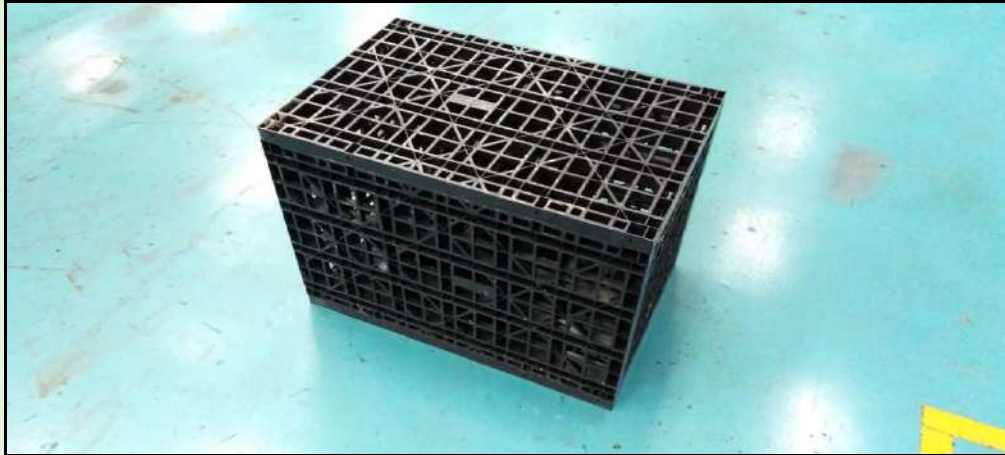


Figure 1: Drainage Module for 3 partitions, 4 partitions and 5 partitions.



Figure 2: Toughness Test using 120mm x 120mm footprint pad



Figure 3: Toughness Test and Fatigue Strength Test

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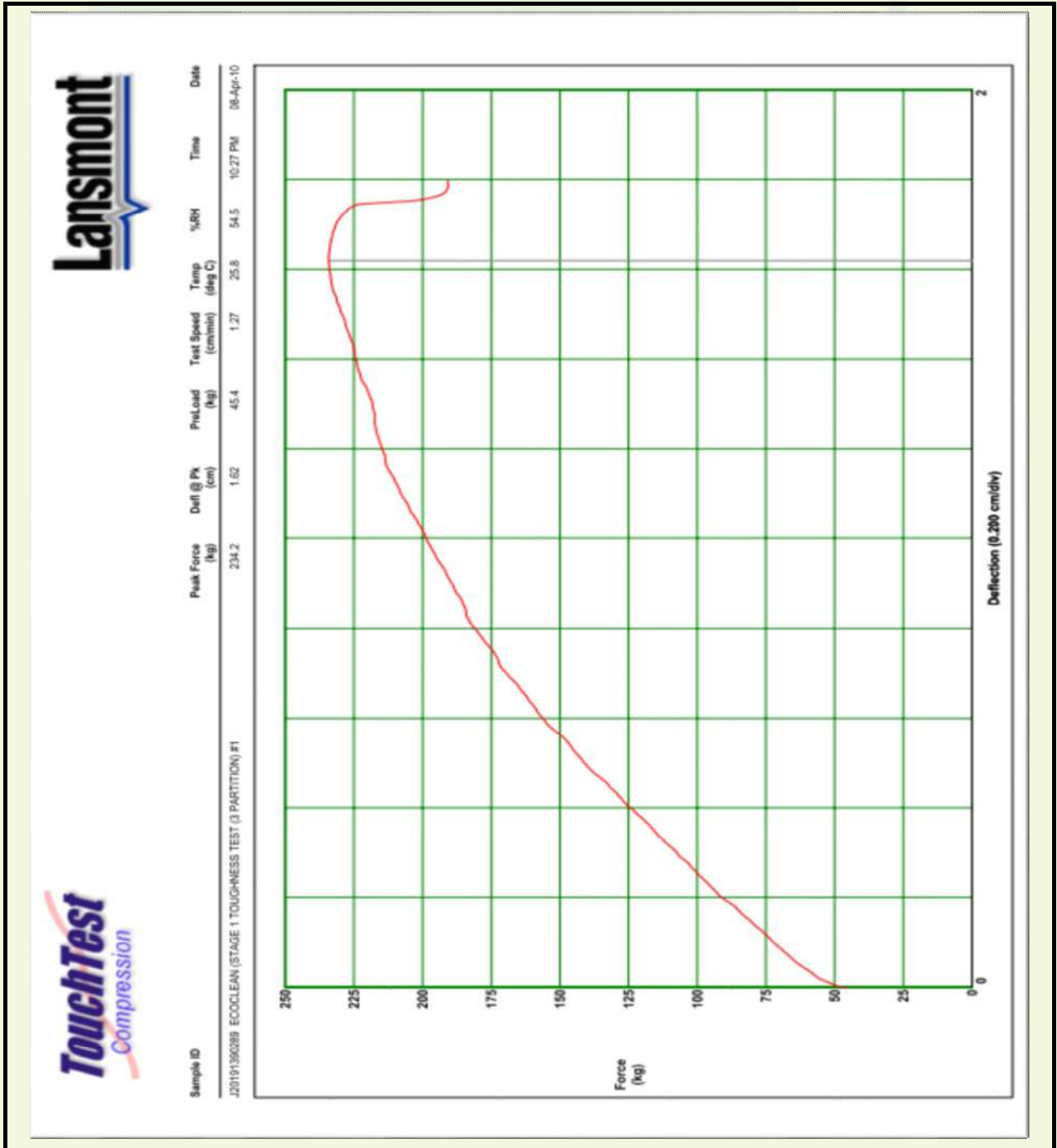


Figure 4: Toughness test using 20mm x 120mm footprint pad (3 partitions)



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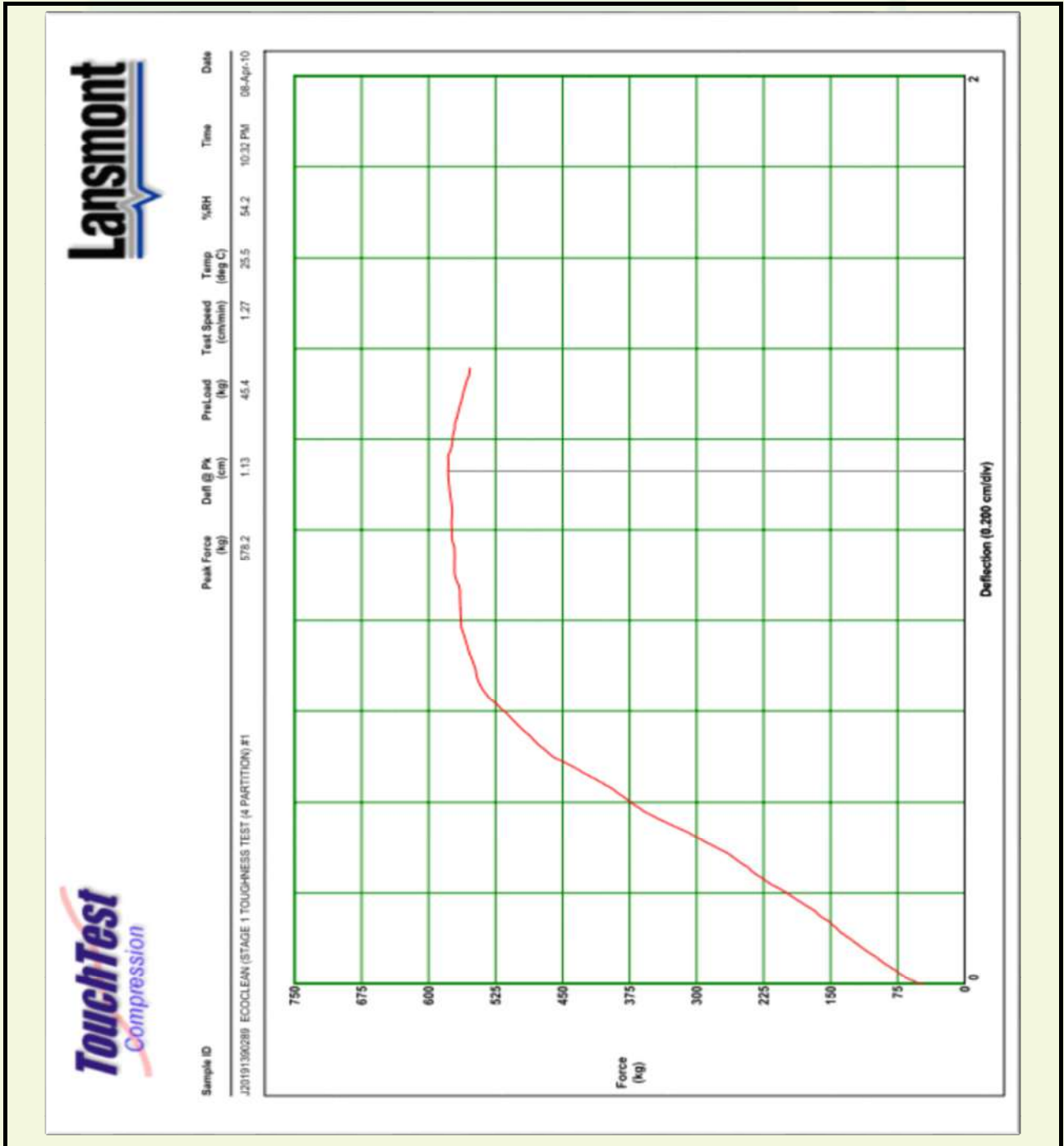


Figure 5: Toughness test result using 120mm x 120mm footprint pad (4 partitions)



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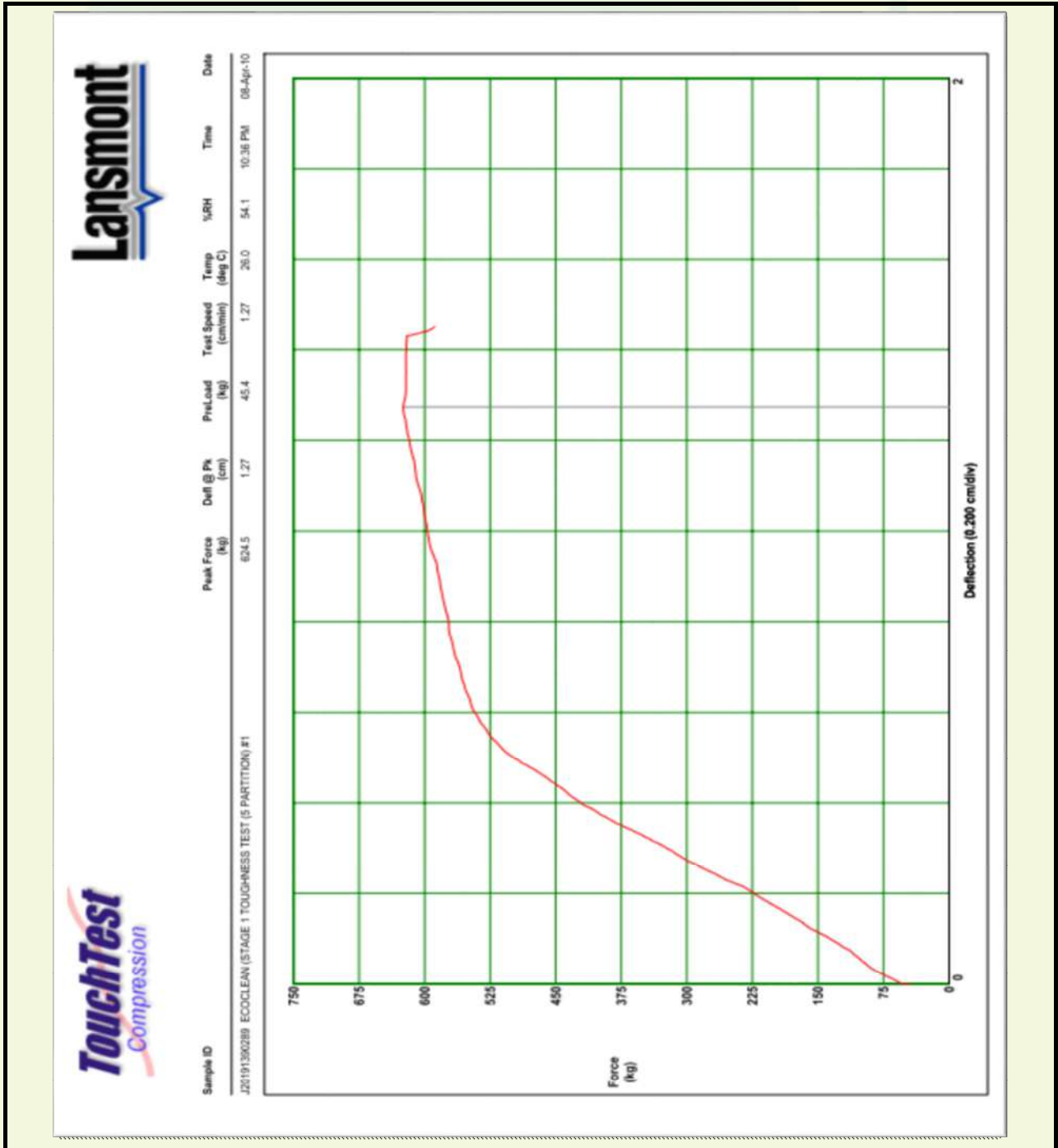


Figure 6: Toughness test result using 20mm x 120mm footprint pad (5 partitions)



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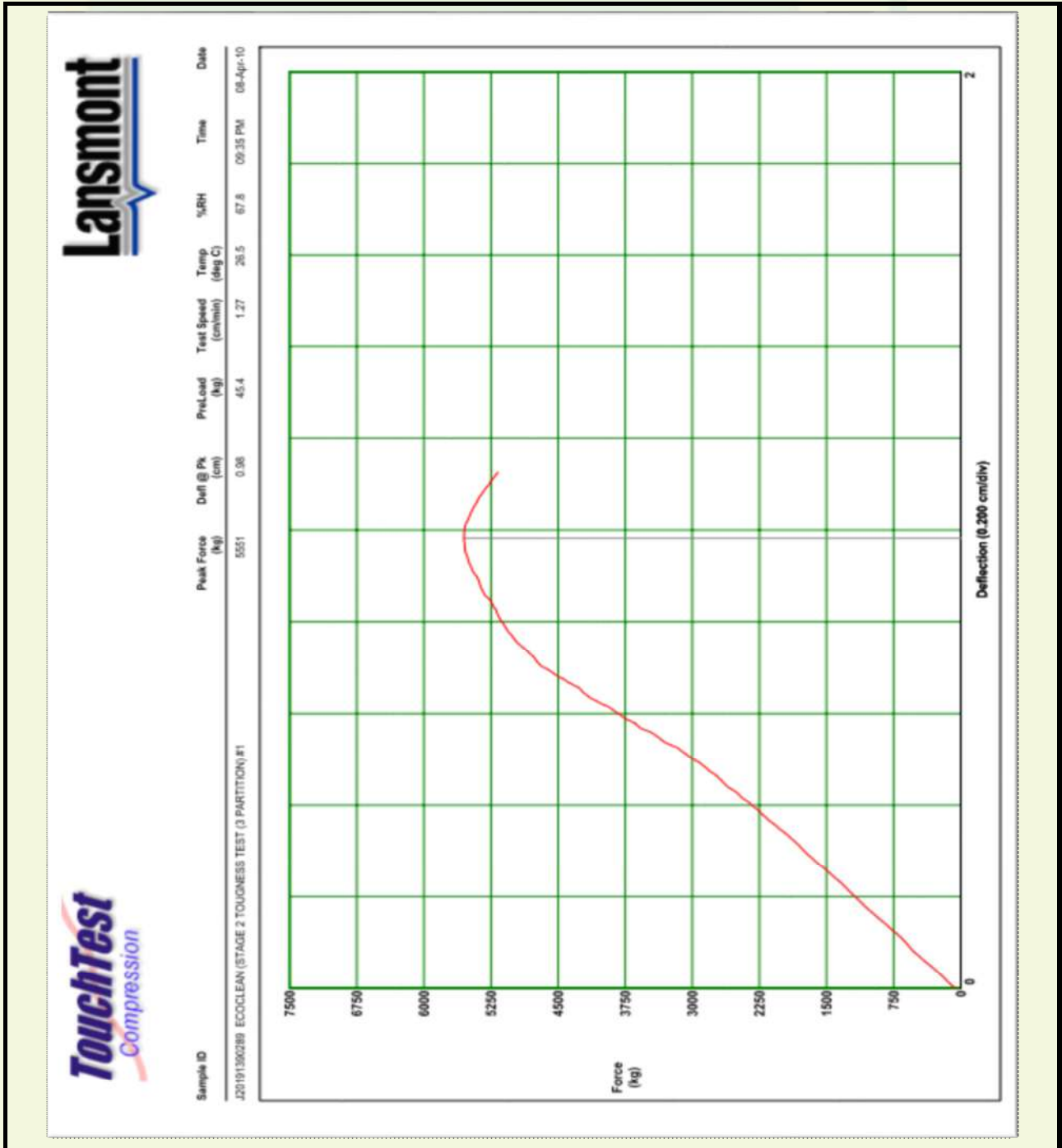


Figure 7: Toughness test graph by uniformly distributed (3 partitions)



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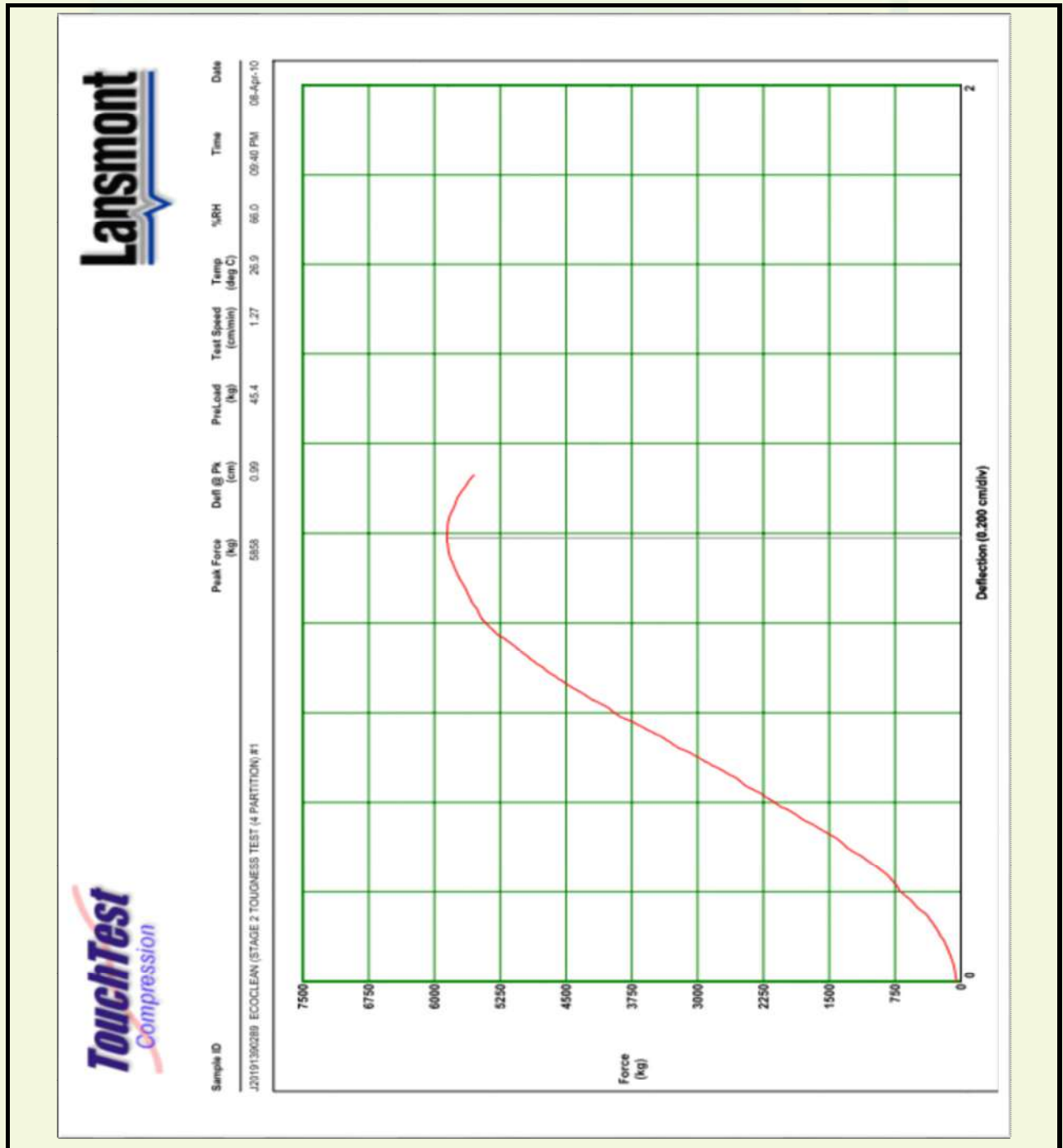


Figure 8: Toughness test graph by uniformly distributed (4 partitions)



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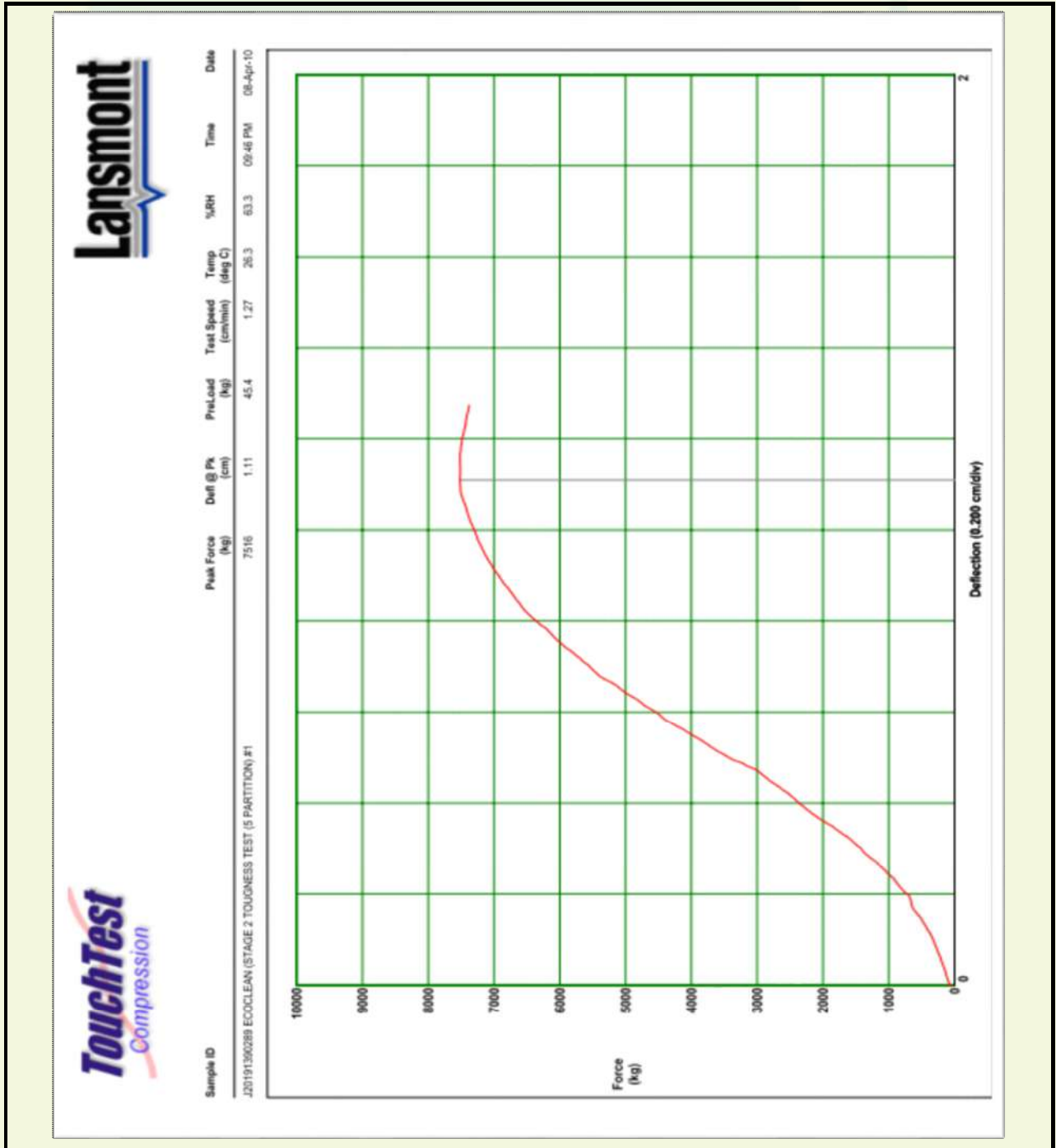


Figure 9: Toughness test graph by uniformly distributed (5 partitions)



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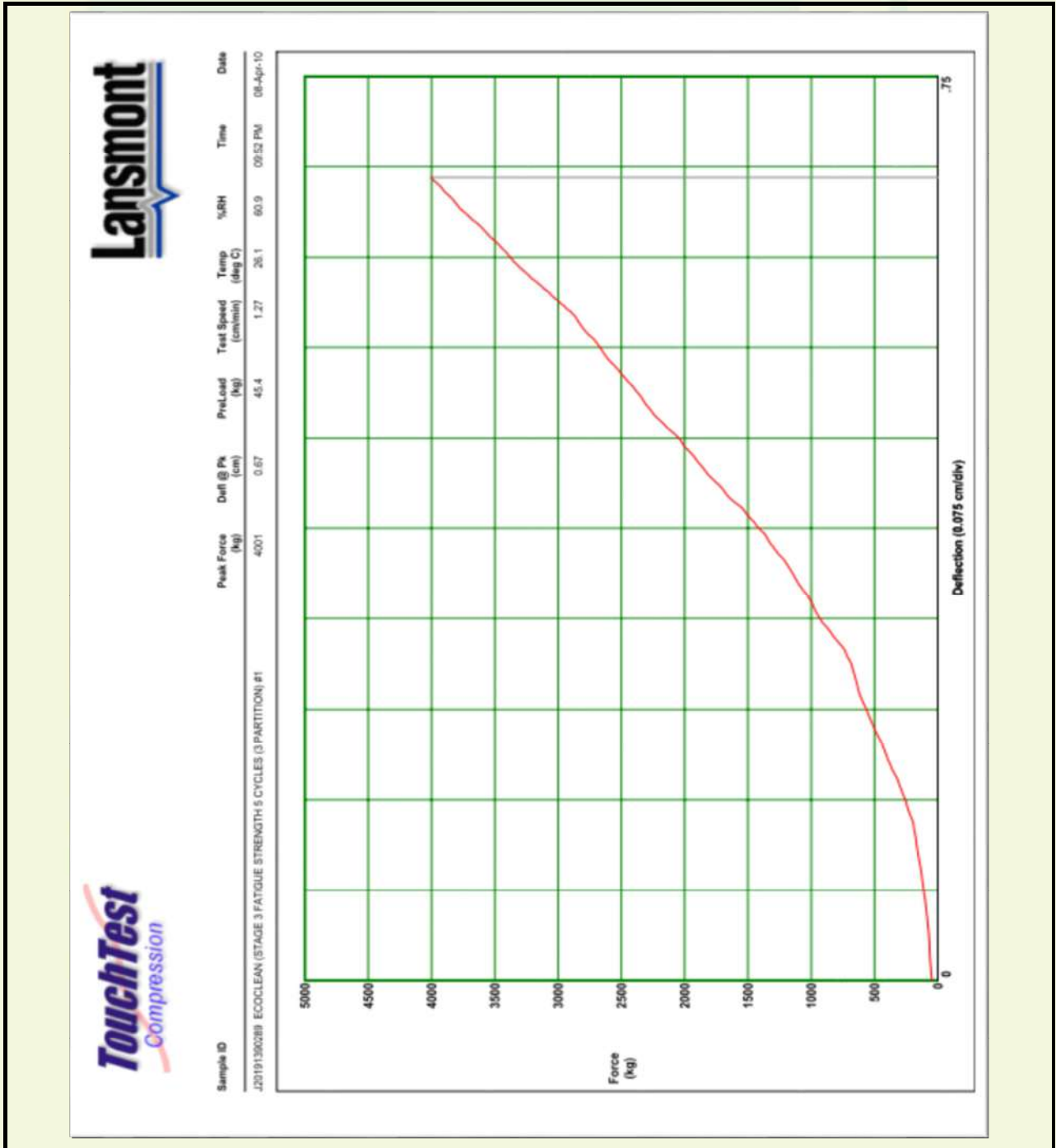


Figure 10: Fatigue Strength Test Graph by uniformly distributed 1st Cycle (3 partitions)



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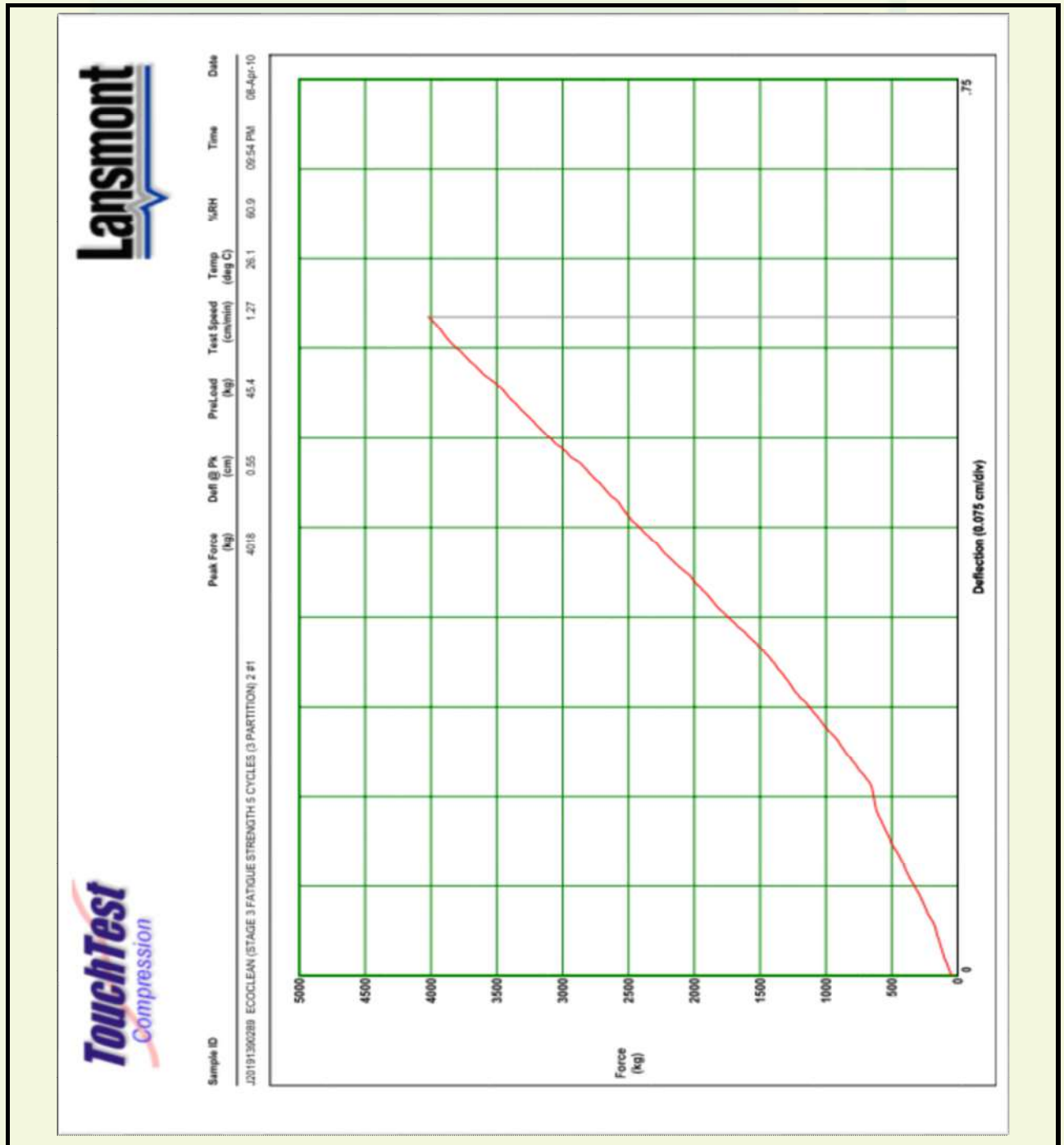


Figure 11: Fatigue Strength Test with uniformly distributed 2nd Cycles (3 partitions)



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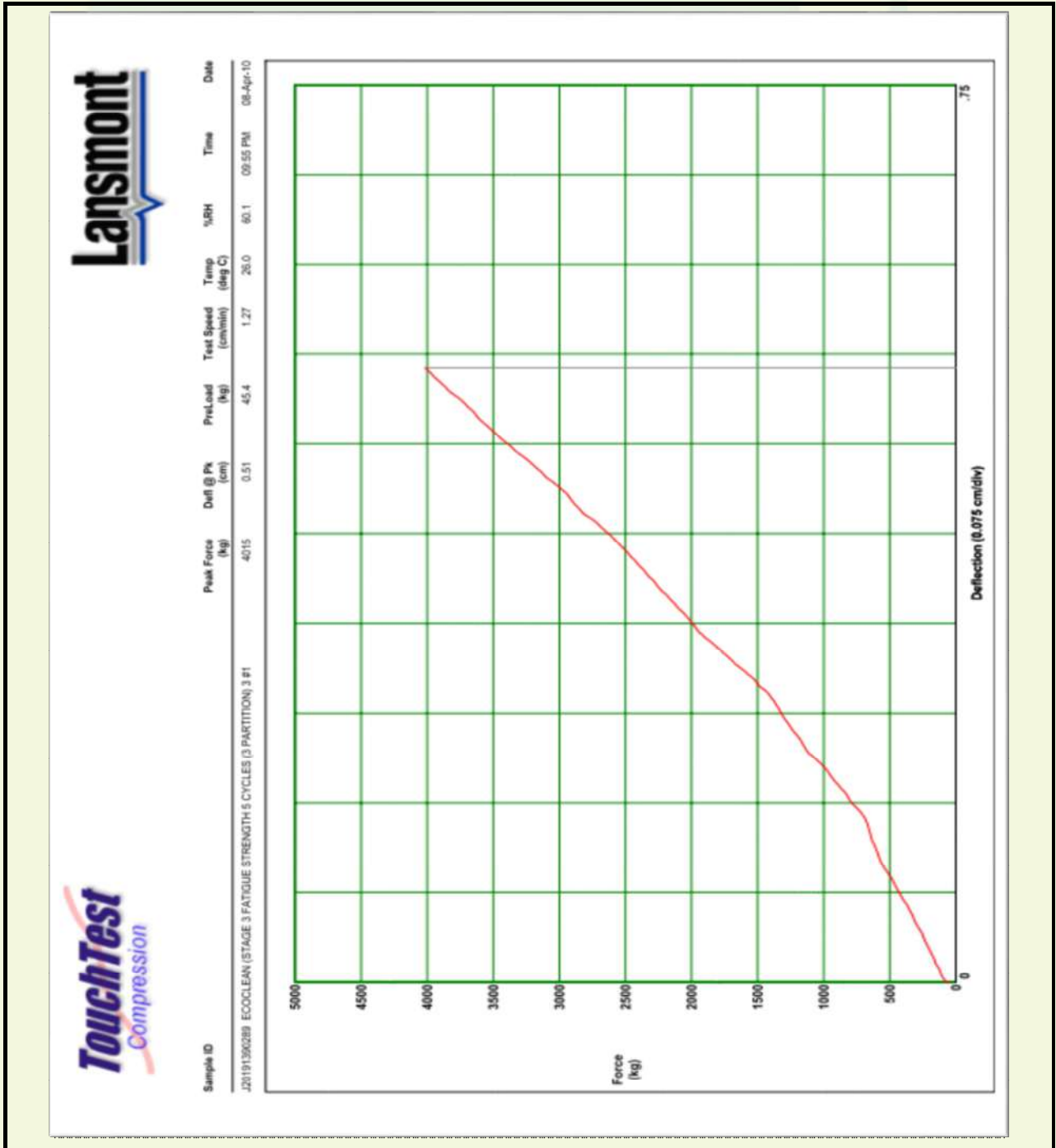


Figure 12: Fatigue Strength of 9.1mm by uniformly distributed 3rd Cycles (3 partitions)



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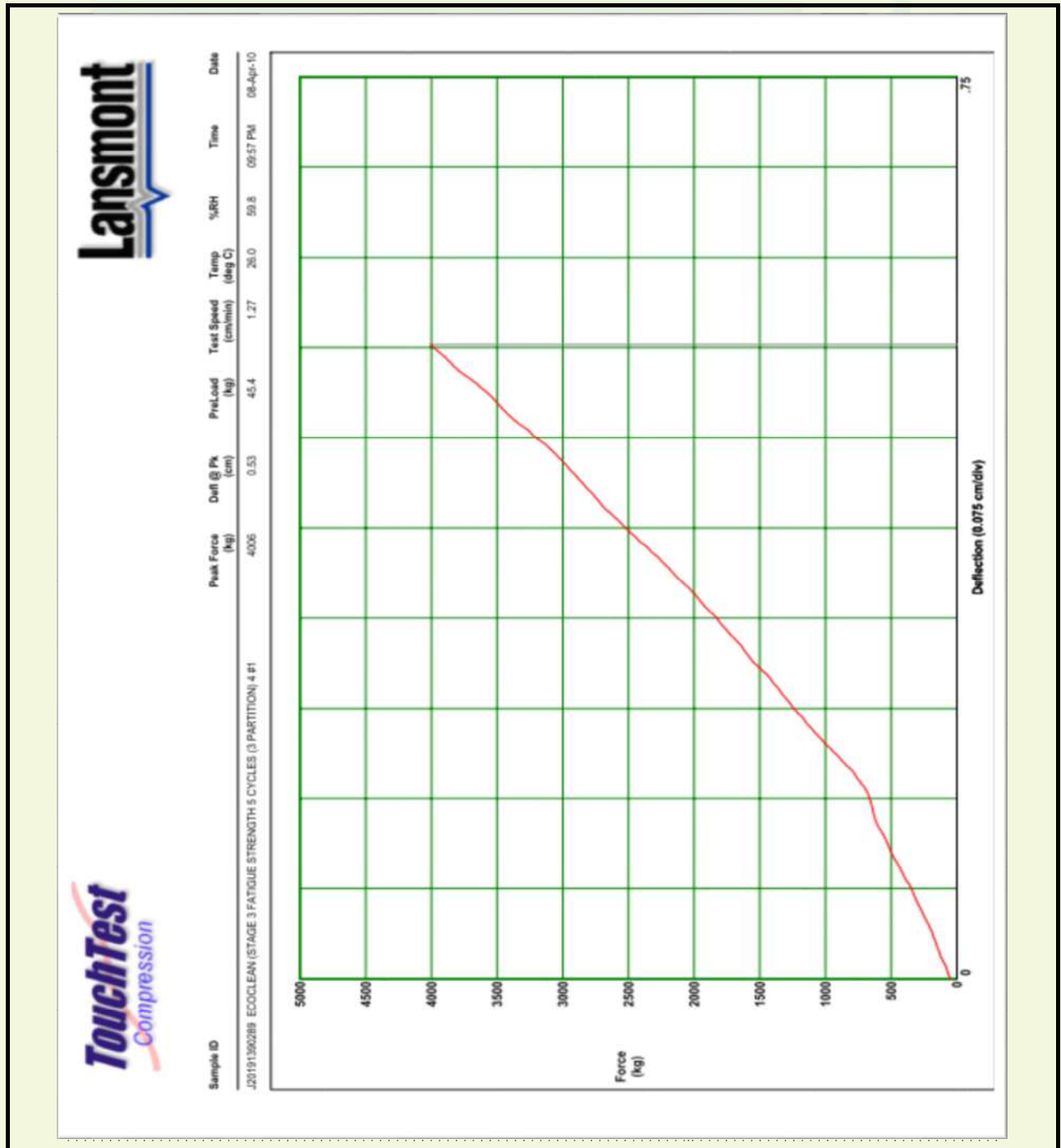


Figure 13: Fatigue Strength test graph by uniformly distributed 4th Cycles



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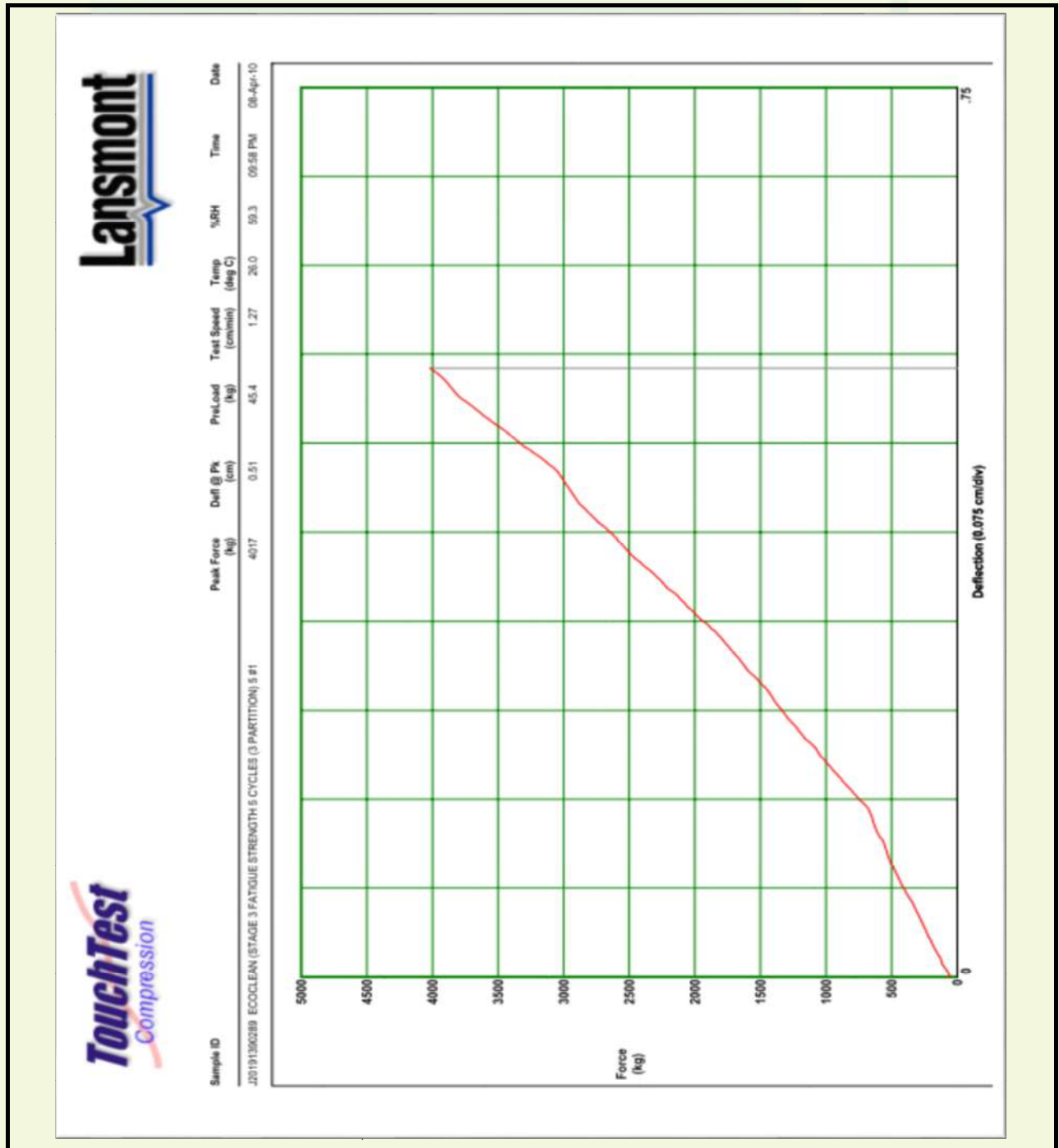


Figure 14: Fatigue Strength of 3.0h by uniformly distributed 5th Cycles (3 partitions)



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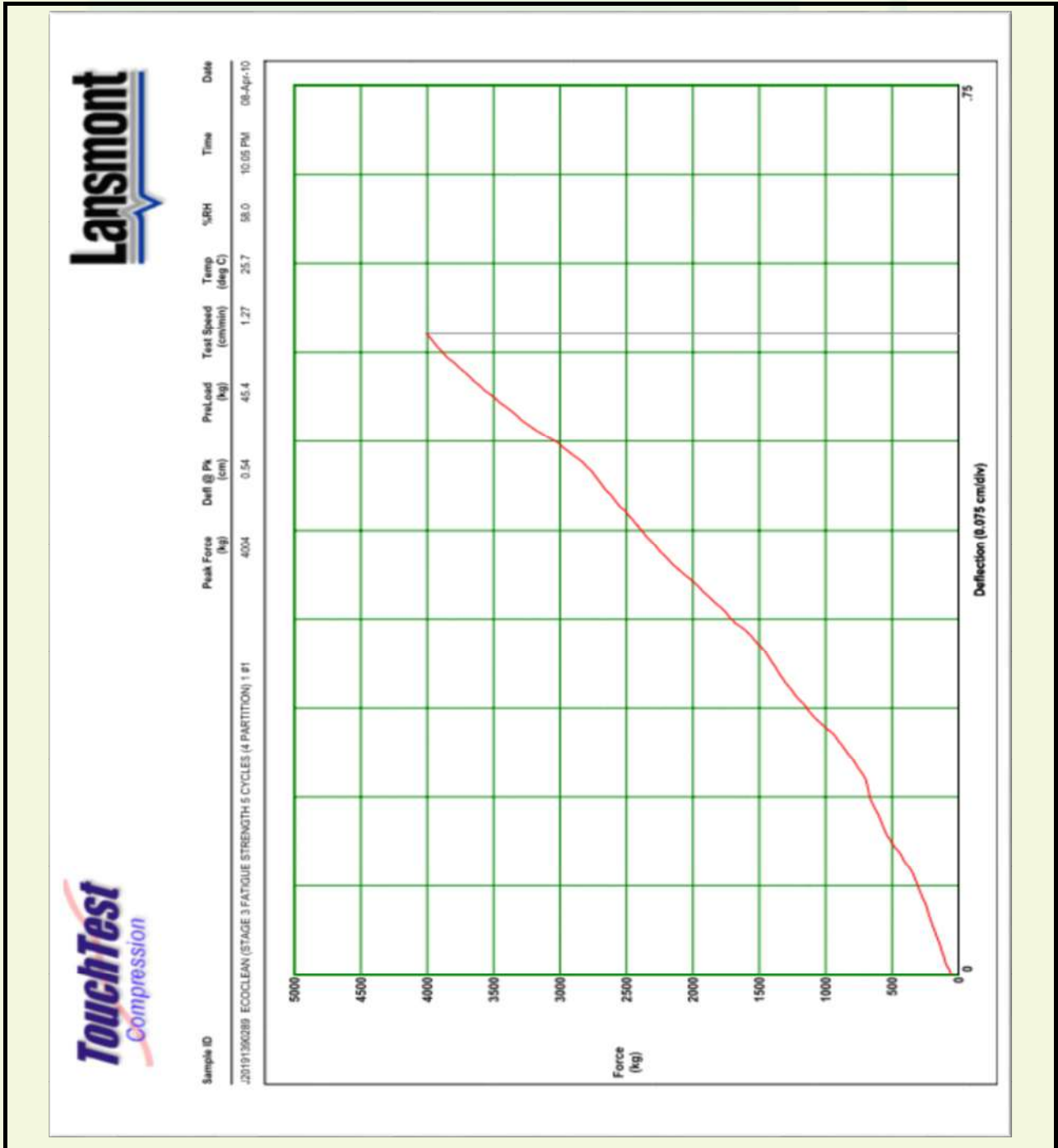


Figure 15: Fatigue Strength test cycle with uniformly distributed 1st Cycle



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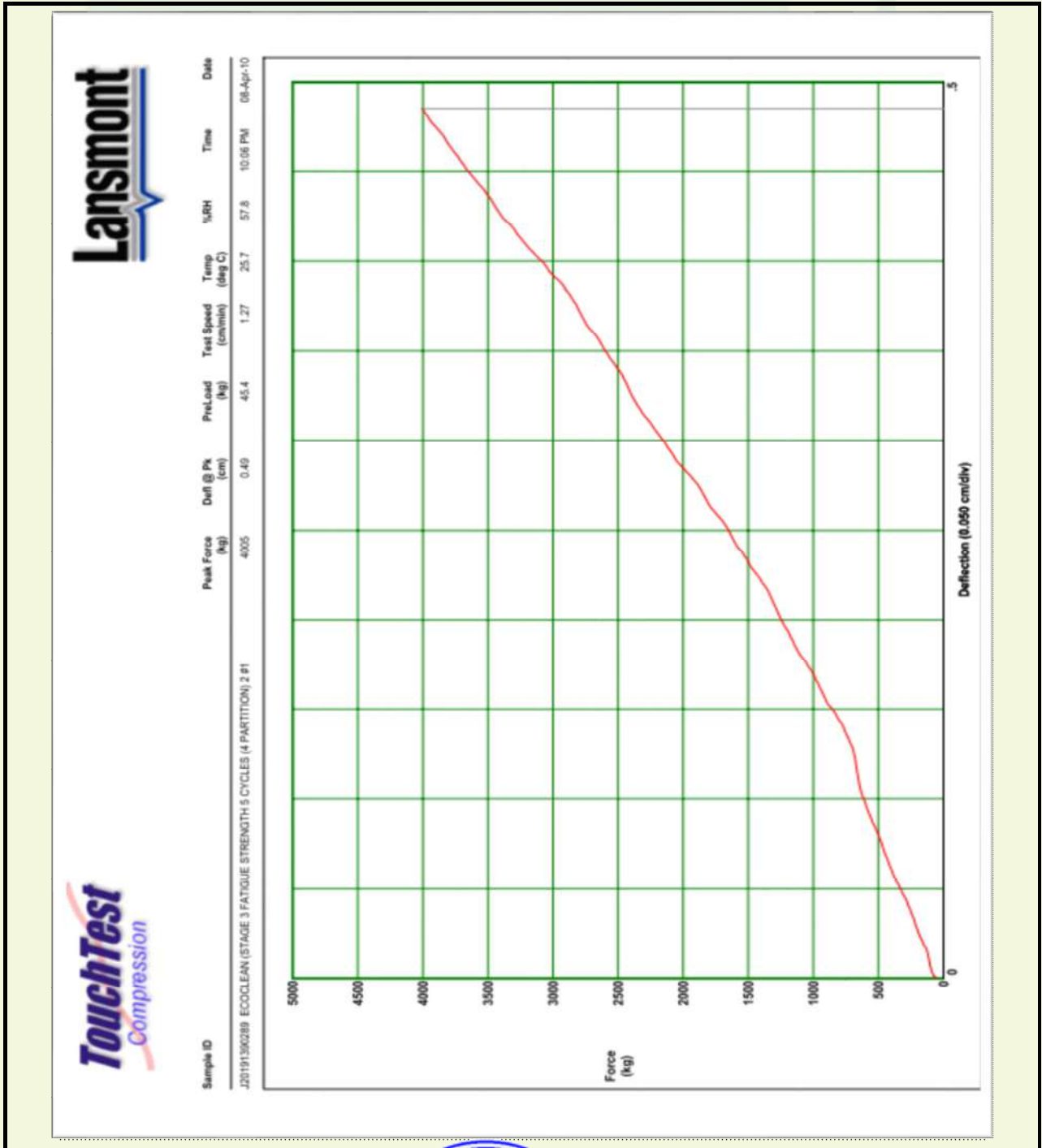


Figure 16: Fatigue Strength test graph by uniformly distributed 2nd Cycles



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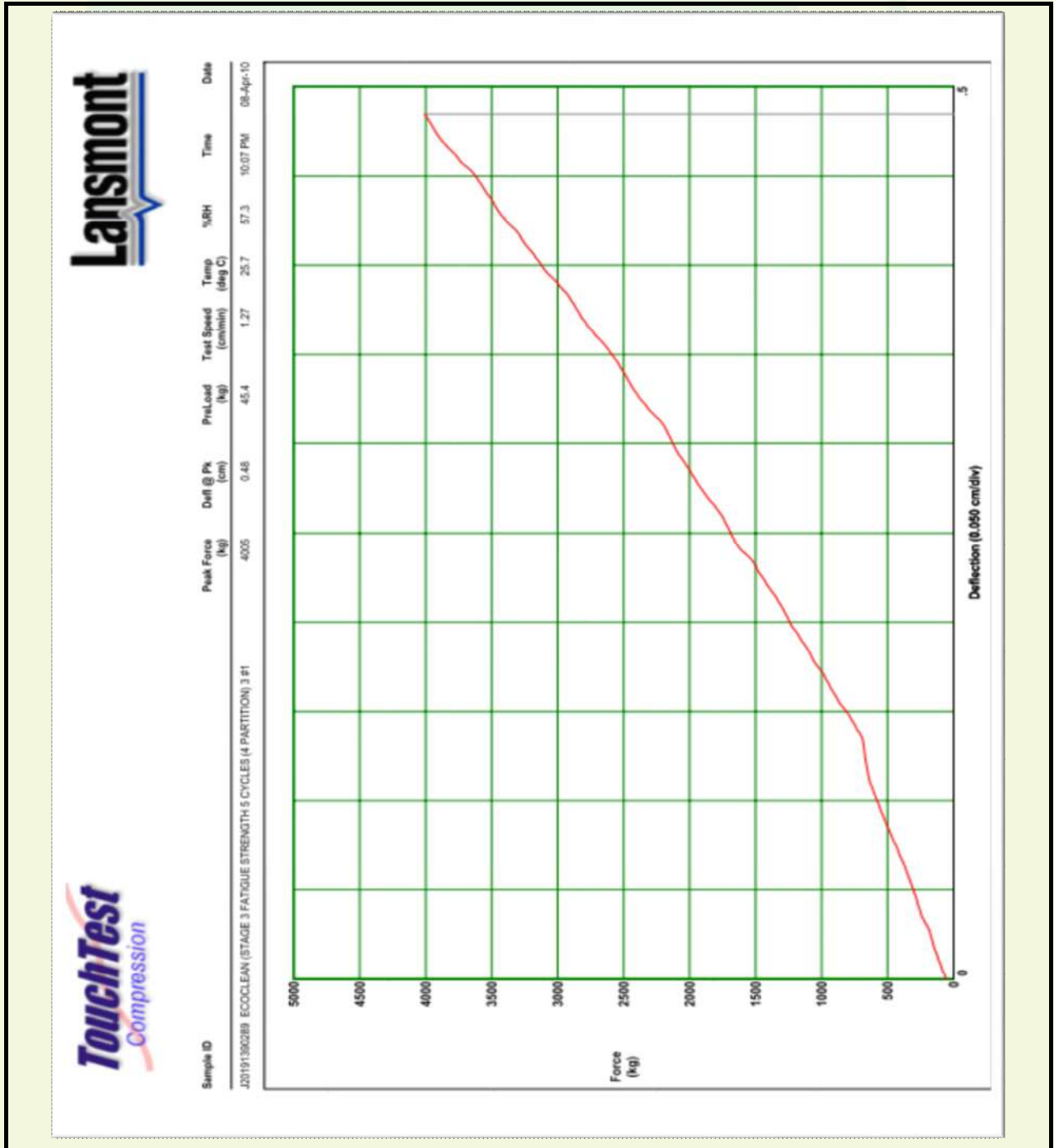


Figure 17: Fatigue Strength of 9.0h by uniformly distributed 3rd Cycles (4 partitions)



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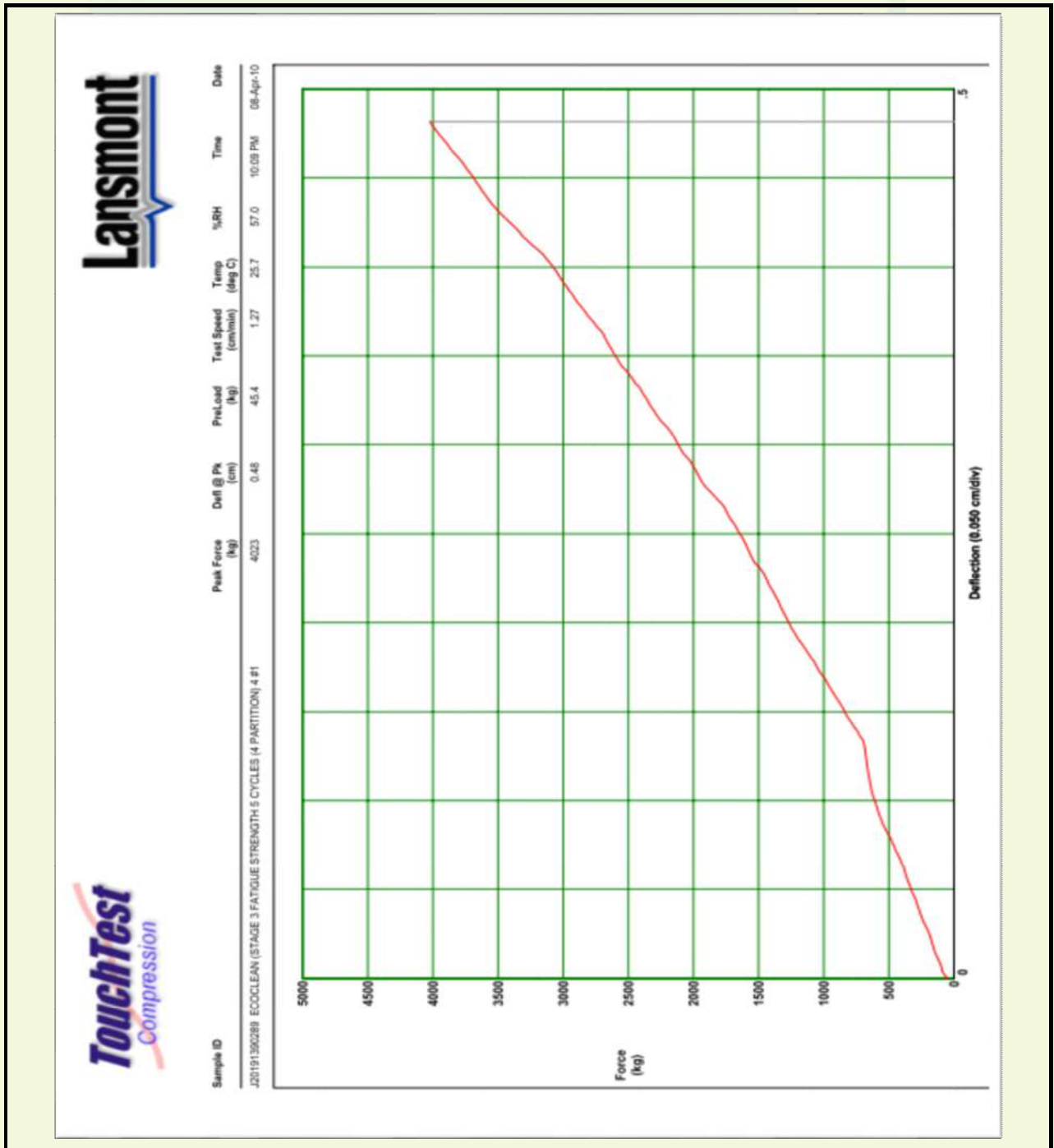


Figure 18: Fatigue Strength test result by uniformly distributed 4th Cycles (4 partitions)



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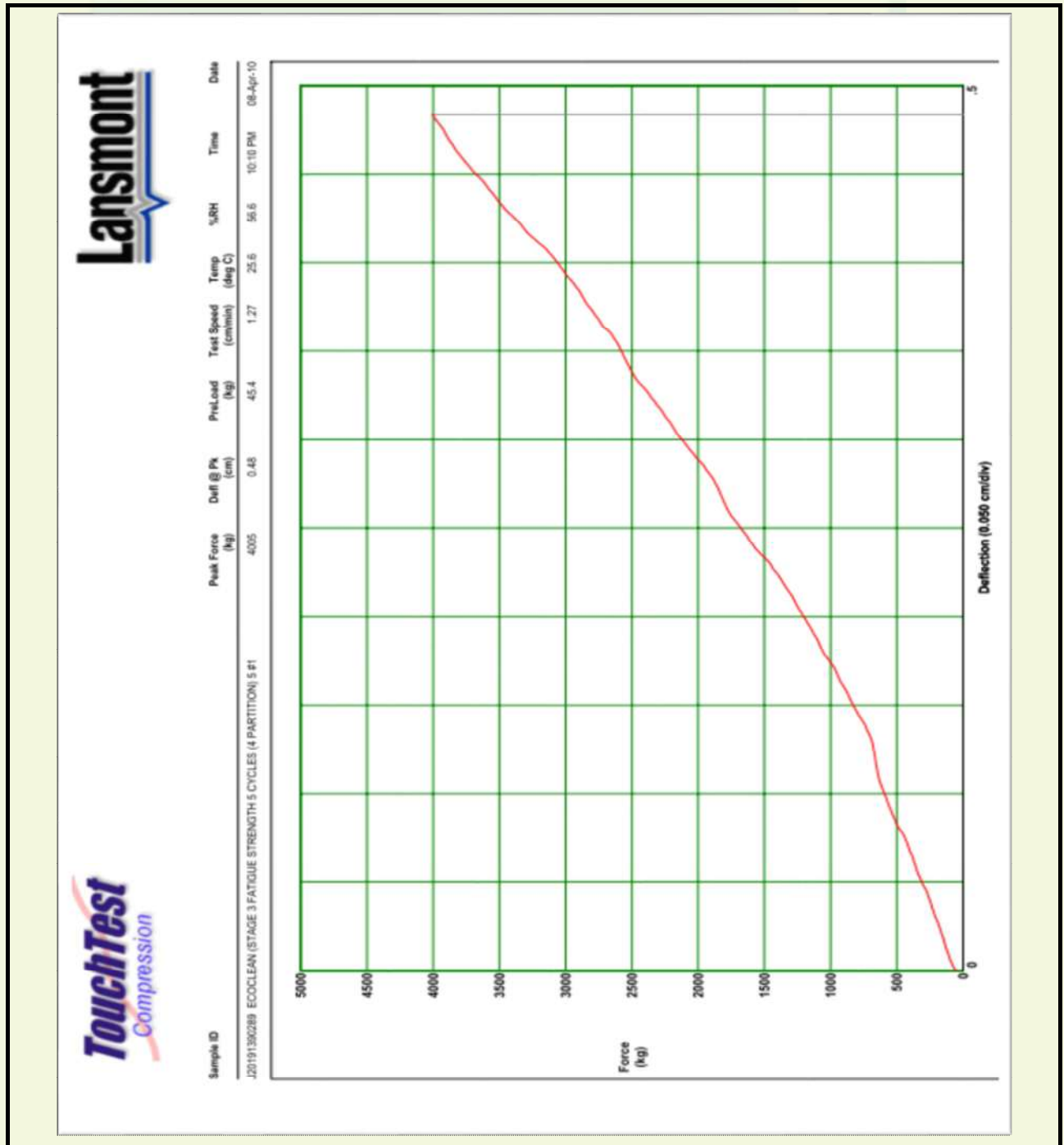


Figure 19: Fatigue Strength test result of uniformly distributed 5th Cycles (4 partitions)



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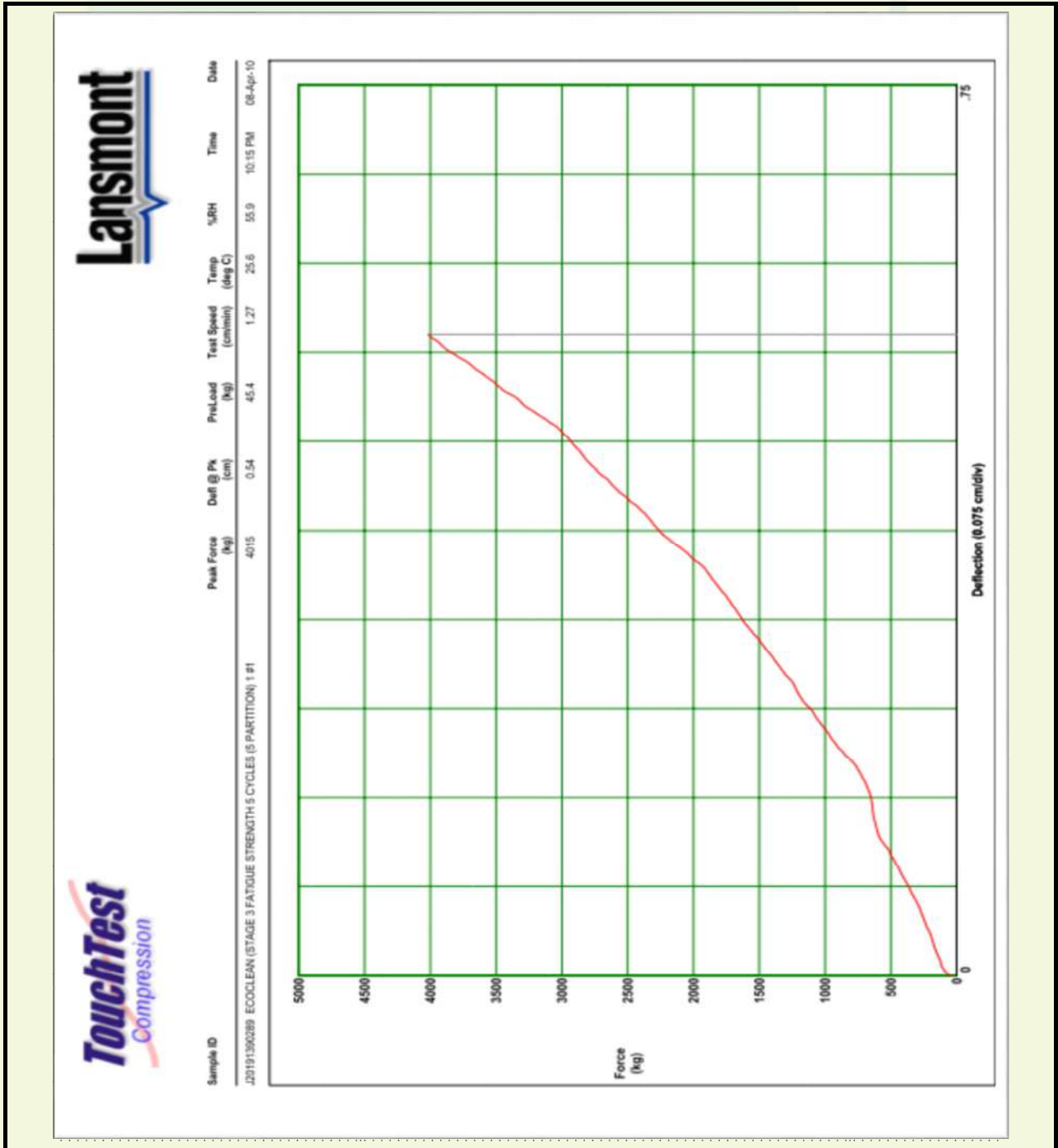


Figure 20: Fatigue Strength Test Graph by uniformly distributed 1st Cycle



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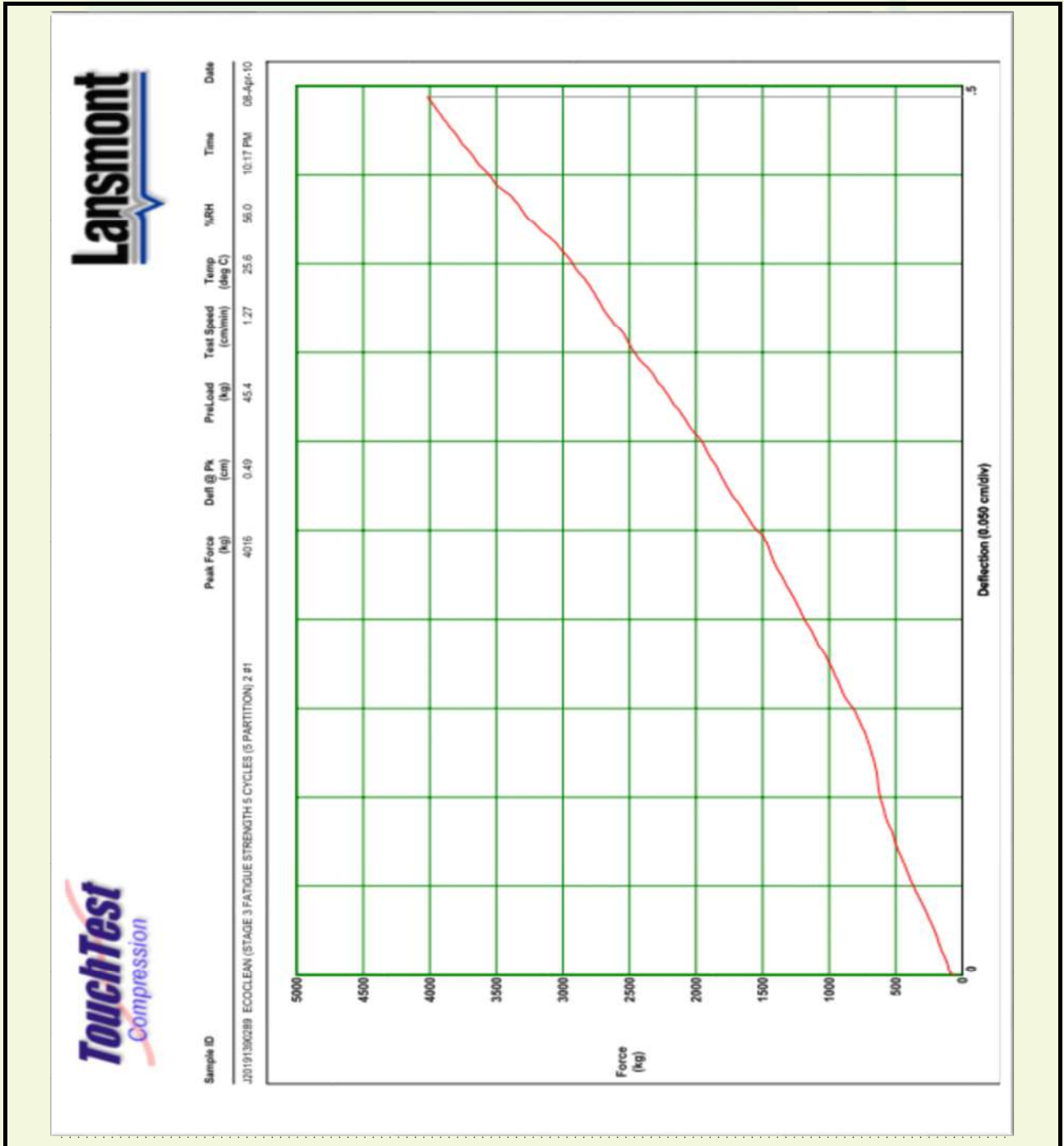


Figure 21: Fatigue Strength 1st Division by uniformly distributed 2nd Cycles (5 partitions)



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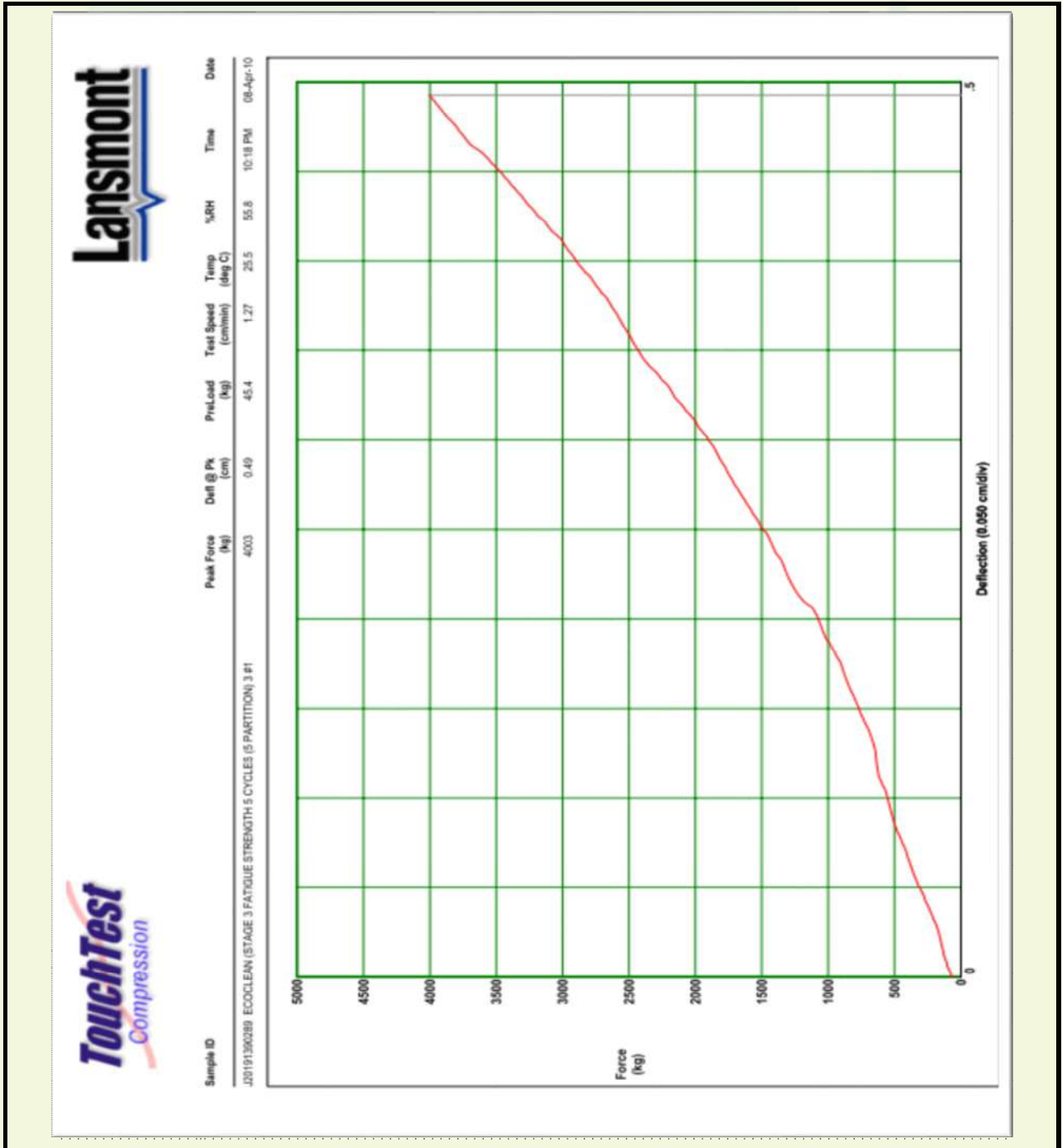


Figure 22: Fatigue Strength at 3.0h by uniformly distributed 3rd Cycles (5 partitions)



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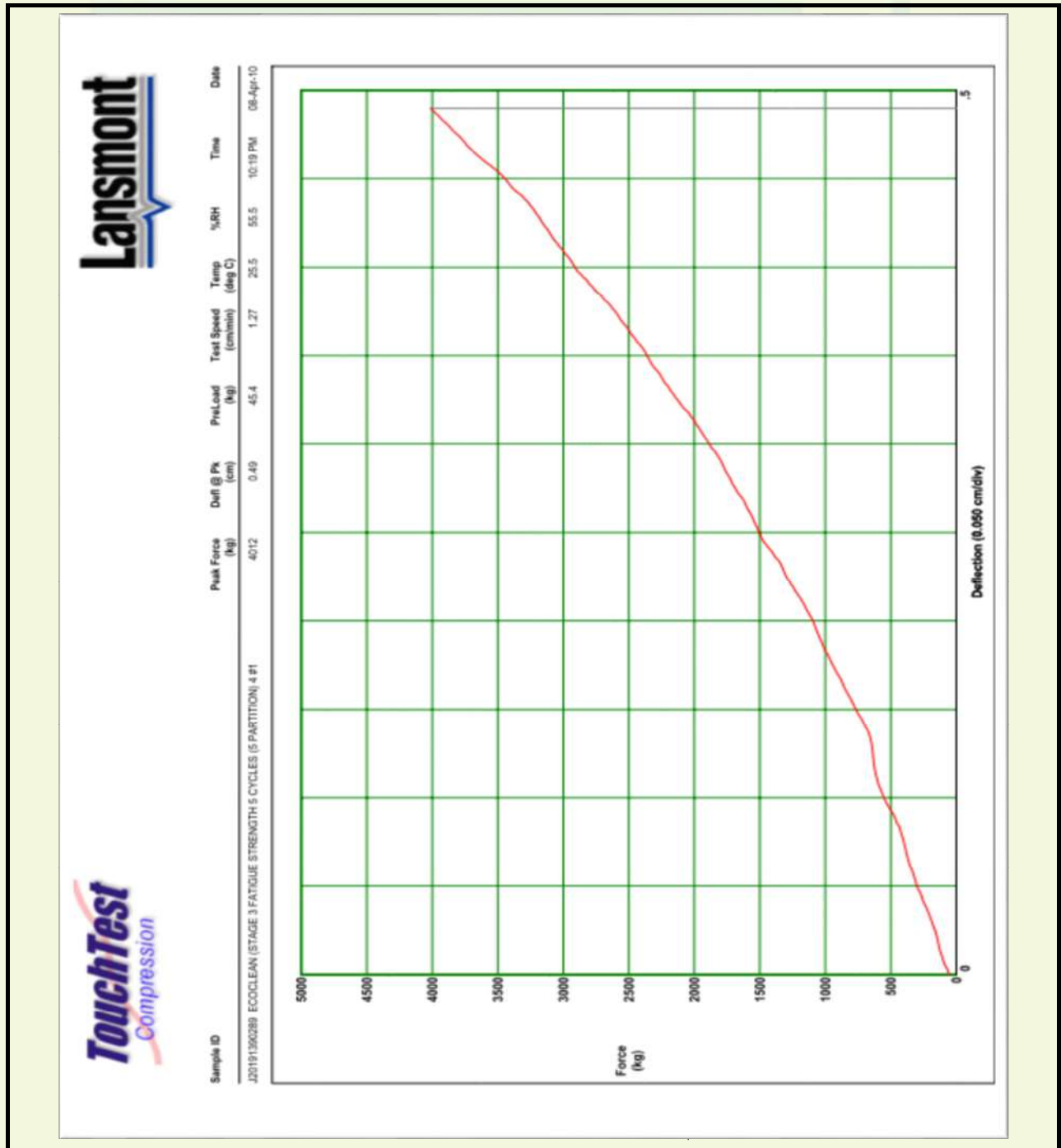


Figure 23: Fatigue Strength at 4012 kg by uniformly distributed 4th Cycles (5 partitions)



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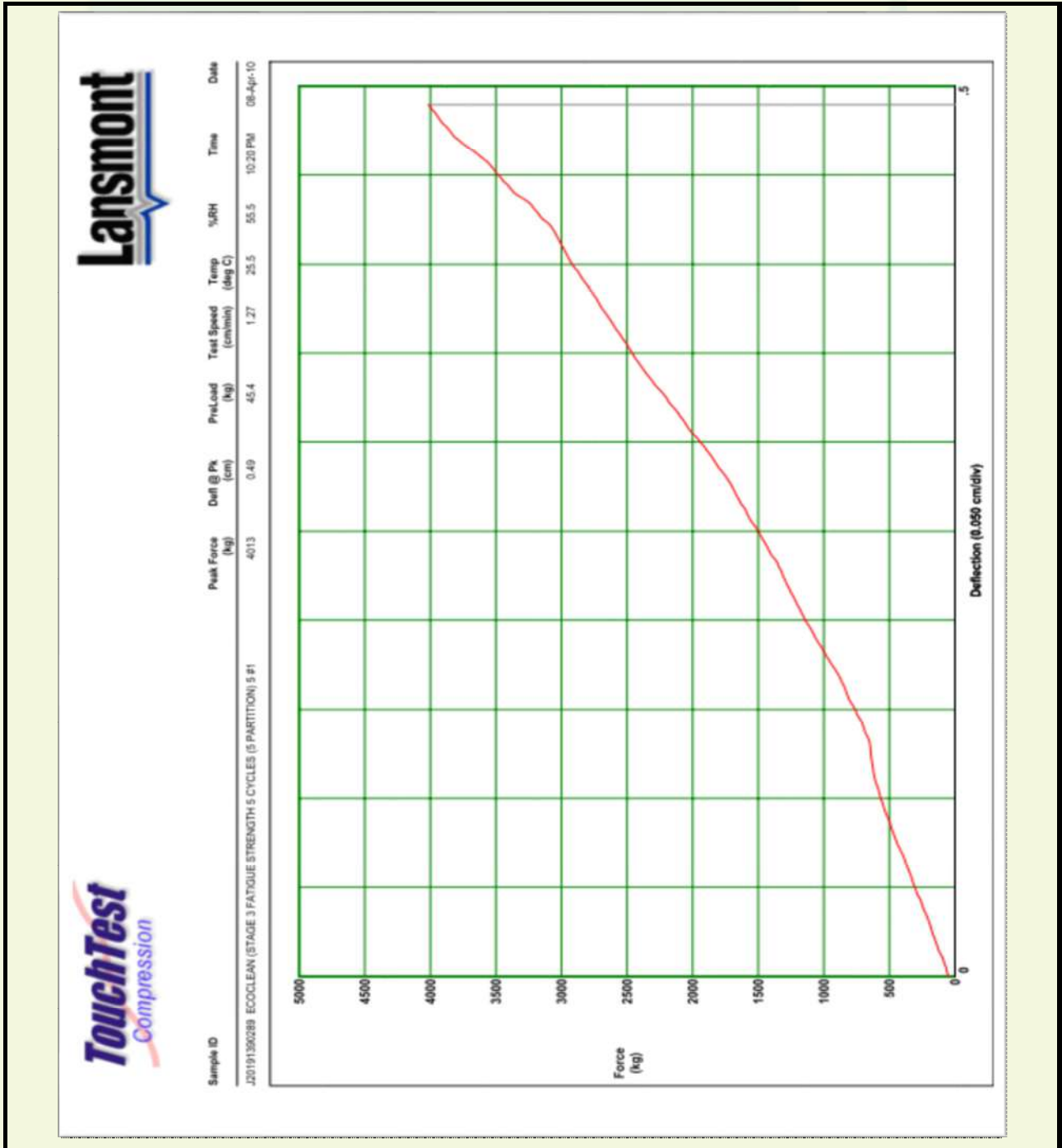


Figure 24: Fatigue Strength at 9.0h by uniformly distributed 5th Cycles (5 partitions)



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8. Further or in the alternative, it is strictly forbidden unless with prior written approval from the Managing Director of SIRIM QAS International, to represent in any manner whatsoever that SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries has endorsed, approved or validated the Product of the Applicant in any manner whatsoever.
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 - b) Obtaining an injunction from Court (cost on a solicitor-client basis to be borne by the Applicant);
 - c) Refusing to accept any further Product for Testing Services from the Applicant or whosoever related to the Applicant, whether subsidiary or otherwise;
 - d) Instructing the Applicant to withdraw and recall the advertisement, statement or document in question and advertise a clarification and apology to SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries twice in a national publication of SIRIM QAS International's choice at the Applicant's sole cost; and
 - e) Informing or lodging a report pertaining the Applicant's Test Report with the relevant authorities.
10. Certified true copies of the Test Report may be issued upon request by the Applicant upon payment of the relevant fee.
11. Corrections to test report shall only be allowed within 6 months from issuance date of the test report and shall be limited to maximum 3 times, after either case whichever occurs earlier, a new test report shall be issued and replace the previous one (having error(s) or lack of information). Issuance of Supplementary Report to the original Test Report shall be for the followings;
 - a) Misprints and typo errors
 - b) Missing technical information
 - c) Test data not reported
 - d) Mistake in reporting of test data