

# TOSOH INDIA : SERVICE CALL REPORT

INSTRUMENT NAME & MODEL <b>MLC-723 48</b>	SERIAL NO. <b>16550912</b>	TICAN NO.
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CUSTOMER DETAILS	
Name <b>TATA I MG PVT-LTD</b>	Address <b>2nd Floor, Plot No. 1072, Ballapur Road, Dehradun - 248001.</b>

Contact Person <b>Mr. Manoj</b>	Contact Number <b>6396345921</b>	E-Mail ID
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SERVICE CALL DETAILS			
Complaint Received On <b>16/11/22</b>	Complaint Attended On <b>17/11/22</b>	Complaint Addressed On <b>17/11/22</b>	Complaint Resolved On <b>17/11/22</b>
Work Carried Out: <input checked="" type="checkbox"/> ON SITE   <input type="checkbox"/> SERVICE HUB	Man Hour Deployed	Travel Time Consumed	

Service Call Executed As : WARRANTY | EX-WARRANTY | AMC | CMC | RRC / PRC | NSC | OTHERS

Purpose Of Visit (Tick Wherever Applicable)	Pre-Installation Check	Demonstration	Installation	Application Issues	Preventive Maintenance <input checked="" type="checkbox"/>	PM-1
	Breakdown	Hardware Complaint	Software Complaint	Reagent Issues	Calibration	MP-2
	Others (Please Specify)					PM-3
						PM-4
						Training

ENGINEER'S OBSERVATIONS	
Reported Issue	<b>PM Due</b>
Observed Damage (If Any) Before Service	
Engineer's Diagnosis	<b>PM Need to be done</b>
Job(s) Carried Out :	<b>PM Done.</b>
Attached Documents	

## PRE-REPLACEMENT REPAIR ESTIMATE / APPROVAL

Sr.No.	Code No.	Description Of Spare Part / Item	Quantity	Source	Unit Price	Total Price
1						
2						
3						
4						
5						

Above mentioned replacement of part/s and related service charges have been approved to proceed for necessary service / repair.	Please Invoice In The Name Of The Laboratory Mentioned Above	Cost Of Spare Part
Name, Signature & Stamp		Service Charge
For Billable Transactions: Customer may kindly note that this SCR duly signed and stamped will be treated as "Purchase Order" from you. If the same does not meet internal procedural requirements, please treat this SCR as a quotation and kindly issue a separate P.O. This estimate will be valid for next 30 days from the date of issuance.		Tax
		Total

STATUS AFTER SERVICE (PLEASE TICK)		
Normal Function: <input checked="" type="checkbox"/> Observed	Instrument Under Observation	Operative But Requires Action
Needs Spare Parts / Consumables	Requires Follow Up	Referred To National Service Hub

Pending Job (If Any)	Customer Remarks :
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For Customer (Name, Signature, Official Seal With Date) <b>Manoj</b>	For Tosoh India (P) Ltd. <b>W</b>
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## TOSOH INDIA PVT.LTD.

Gebi Industrial Park , Building No. 'C' , Sonale Village  
Bhiwandi , Thane -421 302 , India , Tel.: +91-25 222 84100  
email. : [info@tosohindia.com](mailto:info@tosohindia.com) , web : [www.tosohindia.com](http://www.tosohindia.com)

Calibration Report- HLC-723G8 , Automated HPLC Analyzer

Date: 17/11/22

Customer Name & Address:

TATA I MG, PVT - LTD  
2<sup>nd</sup> Floor , Plot No - 1072 , Ballupara  
Road, Chakrata Dehradun - 245001

Instrument Model:

Tosoh - HLC 723G8

Instrument Serial No:

16550912

Calibration Date :

17/11/22

Calibration Due Date:

16/6/23

### A) MECHANICAL ADJUSTMENT

SL.NO	Description	Remarks
1	Z1,Y1 Adjustment calibration	OK
2	X1,X2,Y3 Adjustment Calibration	OK
3	SY-S,SY-L Calibration	OK
4	Position X1 Pitch Calibration	OK
6	Barcode Reader position	OK
7	Sample aspiration Position	OK
8	Adjustment Injection Valve	OK
9	Adjustment Rotary valve	OK

### B) CHECKING VOLTAGES -1

Test Point	Expected Range	Measured Range	Remarks
GND/24 volt	24V +/- 100mv	24V	24V

### C) CHECKING VOLTAGES -2

Test Point	Expected Range	Measured Range	Remarks
GND/5V	5 V +/- 50mv	5 V	5V

### D) CHECKING VOLTAGES -3

Test Point	Expected Range	Measured Range	Remarks
GND/12 V	12V +/- 100mv	12 V	12V

E) Column Temperature :

Column Temperature Adjustment					
SL.NO	Adjustment	Units	Standard Value	Toler ±	Value
1	Temperature Inside Column Box	°C	25°C	-0.02	25°C

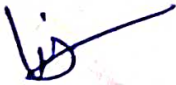

F) Pressure Check :

Pressure Check					
SL.NO	Description	Units	Standard	Toler±	Value
1	Pressure ( MPa) w/o Column	mpa	0.0	0.5	0.0
2	Pressure ( MPa) w Column	mpa	7-15	-	8.7

D) Lamp Intensity :

Lamp Intensity				
SL.NO	Description	Value	Standard	Remarks
1	Lamp Intensity	OK	OK	OK
2	Detector Calibration	OK	OK	OK

We confirm the above mentioned analyzer/instrument is calibrated and working within the specification

	
<b>Signature Of Engineer</b>	<b>Authorized Customer Signature</b>
Date: 17/11/22	Date: 17/11/22

# Calibration

\* GLYCOHEMOGLOBIN REPORT \*

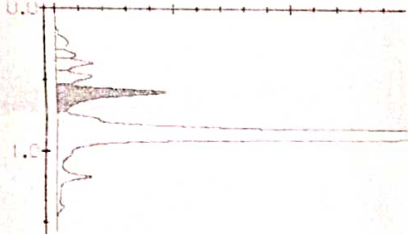
2022/11/17 15:26  
TOSOH CORPORATION V05.29  
NO: 9001 SI 0001 - 01  
ID: 0001 01  
CAL(N) = 1.0000X + 0.0000

NAME	%	TIME	AREA
FP	0.0	0.00	0.00
A1A	0.7	0.24	8.23
A1B	0.5	0.33	6.34
F	1.2	0.39	14.38
LA1C+	1.3	0.48	16.05
SA1C	4.7	0.59	57.19
A0	92.9	0.88	1141.12
TOTAL AREA			1243.31

HbA1C 4.7%

IFCC 27 mmol/mol

HbA1 5.8 % HbF 1.2 %  
0% 15%



\* GLYCOHEMOGLOBIN REPORT \*

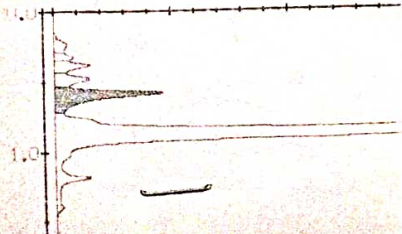
2022/11/17 15:27  
TOSOH CORPORATION V05.29  
NO: 9002 SI 0001 01  
ID: 0001 - 01  
CAL(N) = 1.0000X + 0.0000

NAME	%	TIME	AREA
FP	0.0	0.00	0.00
A1A	0.7	0.24	8.25
A1B	0.5	0.33	6.52
F	1.2	0.38	14.58
LA1C+	1.3	0.48	16.36
SA1C	4.7	0.58	58.24
A0	92.8	0.88	1159.88
TOTAL AREA			1263.84

HbA1C 4.7%

IFCC 27 mmol/mol

HbA1 5.8 % HbF 1.2 %  
0% 15%



\* GLYCOHEMOGLOBIN REPORT \*

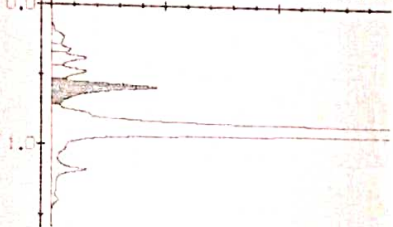
2022/11/17 15:26  
TOSOH CORPORATION V05.29  
NO: 9003 SI 0001 - 01  
ID: 0001 - 01  
CAL(N) = 1.0000X + 0.0000

NAME	%	TIME	AREA
FP	0.0	0.00	0.00
A1A	0.7	0.24	8.30
A1B	0.5	0.32	6.92
F	1.2	0.38	14.93
LA1C+	1.3	0.48	16.68
SA1C	4.7	0.59	58.61
A0	92.8	0.88	1168.51
TOTAL AREA			1273.96

HbA1C 4.7%

IFCC 27 mmol/mol

HbA1 5.9 % HbF 1.2 %  
0% 15%



\* GLYCOHEMOGLOBIN REPORT \*

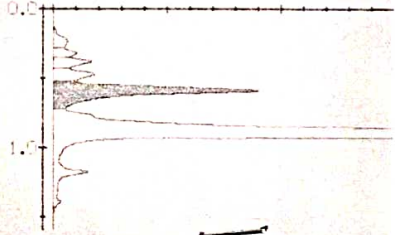
2022/11/17 15:31  
TOSOH CORPORATION V05.29  
NO: 9004 SI 0001 - 02  
ID: 0001 - 02  
CAL(N) = 1.0000X + 0.0000

NAME	%	TIME	AREA
FP	0.0	0.00	0.00
A1A	0.8	0.24	9.50
A1B	0.7	0.32	8.90
F	1.3	0.39	16.88
LA1C+	1.6	0.48	20.32
SA1C	9.1	0.59	113.60
A0	87.8	0.88	1096.85
TOTAL AREA			1266.04

HbA1C 9.1%

IFCC 76 mmol/mol

HbA1 10.6 % HbF 1.3 %  
0% 15%



\* GLYCOHEMOGLOBIN REPORT \*

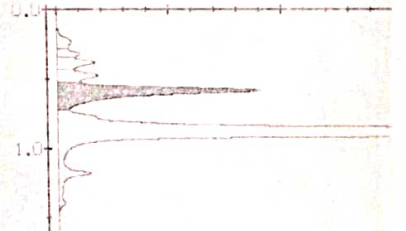
2022/11/17 15:32  
TOSOH CORPORATION V05.29  
NO: 9005 SI 0001 - 02  
ID: 0001 - 02  
CAL(N) = 1.0000X + 0.0000

NAME	%	TIME	AREA
FP	0.0	0.00	0.00
A1A	0.7	0.24	9.15
A1B	0.7	0.32	8.33
F	1.4	0.38	17.39
LA1C+	1.6	0.48	20.29
SA1C	9.1	0.59	113.66
A0	87.9	0.88	1099.45
TOTAL AREA			1268.27

HbA1C 9.1%

IFCC 76 mmol/mol

HbA1 10.5 % HbF 1.4 %  
0% 15%



\*\*\* CALIBRATION REPORT \*\*\*  
CALIB DATE 2022/11/17 15:32

OLD Y = 1.1286X + 0.5283  
NEW Y = 1.1278X + 0.5772

FILTER COUNT 11  
COLUMN COUNT 861

# (control)

\* GLYCOHEMOGLOBIN REPORT \*

2022/11/17 15:34  
TOSOH CORPORATION V05.29  
NO: 0001 SL 0002 - 01  
ID: 0002 - 01  
CAL(N) = 1.1278X + 0.5772

NAME	%	TIME	AREA
FP	0.0	0.00	0.00
A1A	0.5	0.24	5.09
A1B	0.7	0.32	7.37
F	0.6	0.38	7.08
LA1C+	1.4	0.48	15.50
SA1C	4.9	0.58	44.13
AD	93.5	0.88	1041.62
TOTAL AREA			1120.78

HbA1C 4.9%

IFCC 31 mmol/mol

HbA1 6.1% HbF 0.6%  
0% 15%



\* GLYCOHEMOGLOBIN REPORT \*

2022/11/17 15:38  
TOSOH CORPORATION V05.29  
NO: 0002 SL 0002 - 02  
ID: 0002 - 02  
CAL(N) = 1.1278X + 0.5772

NAME	%	TIME	AREA
FP	0.0	0.00	0.00
A1A	0.7	0.24	7.04
A1B	0.8	0.32	8.06
F	1.0	0.39	10.13
LA1C+	1.7	0.48	18.29
SA1C	9.9	0.59	88.32
AD	88.4	0.88	931.83
TOTAL AREA			1063.67

HbA1C 9.9%

IFCC 85 mmol/mol

HbA1 11.4% HbF 1.0%  
0% 15%

