

Release Notes – Summary of Lab

Index

✓ LAB module

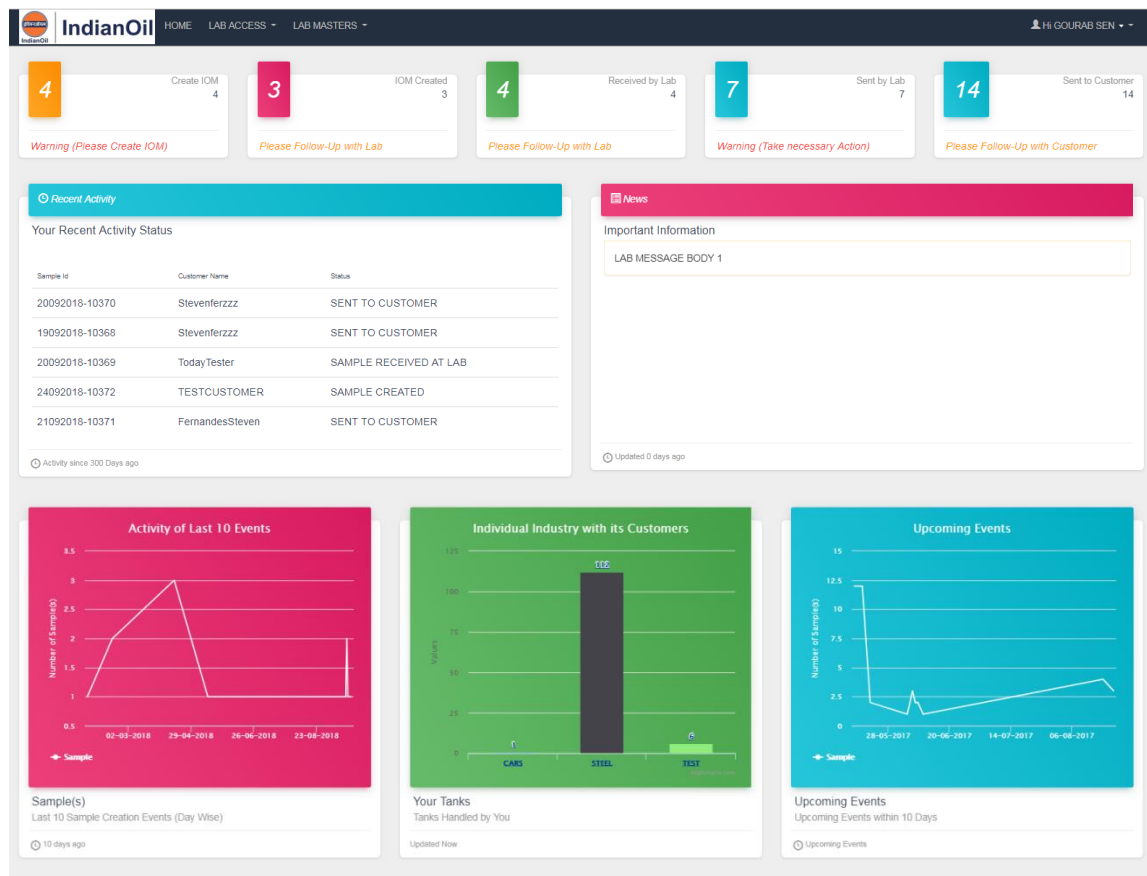
- Acknowledging the sample upon received, physically.
- Processing the samples and forwarding to the TSE.
- Review/Check the sample sent to
 - 1) TSE
 - 2) Customer
- Lab Equipment
- TSE Admin module
- Lab-Test Status
- Test Specification View

This software helps in condition monitoring program. There are two kinds of roles as of now—TSE and LAB.

1.0 NEW FEATURES/FUNCTIONALITY ADDED

1.1 Dashboard

All four roles have Dashboard after logging in.





Here, the first row ^①, is cards with number of pending sample to be forwarded/check/approved/inbox depending on the selected

The second row ^② contains two cards, the first one represent the recent activity done by the User. E.g. the samples received or sent lately. The second one represents the latest updates/new for the user.

The Final row ^③ contains three cards with all graphs in it. Where First represents the samples holding by that user (by role), the second represents the number tank handled by him. And the last card represents the number of events i.e. next samples to be taken within the next 10 days.

1.2 LAB Role:

If LAB-in-charge logs into the system successfully then number of samples which are to be received physically i.e. how many samples need to be acknowledged upon received the sample physically.

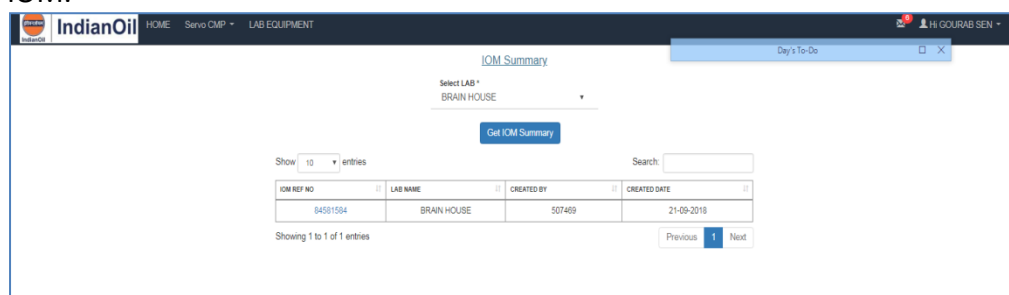


Once LAB-in-charge logs in, five reports are available.

1. Print IOM
2. Acknowledge
3. Process
4. Forwarded to TSE
5. Sent to Customer

1.2.1 Print IOM

The Lab in-charge can view all the sample send to him by Lab and print their IOM.





1.2.2 Acknowledge:

Go to **Servo CMP**→**Acknowledge**.

It will show the summary of all the samples which are to be acknowledged upon receiving the samples physically.

Sample(s) available for Acknowledgement

PRIORITY → NORMAL MEDIUM HIGH

Show 10 entries

Search:

SAMPLING TYPE	SAMPLE ID	CUSTOMER NAME	DEPARTMENT	APPLICATION	TANK NO	EQUIPMENT	PRODUCT	QTY DRAWN(Ltrs.)	DRAWN ON
	24092018-10372	TESTCUSTOMER	FINANCE	TEST APP	1	TEST EQUIPMENT 2	SERVO MESH SP 320 1	775	24-09-2018
	28112018-10410	TodayTester	DEPTFORTESTER	GEAR	01	EQUIPFORGEAR	SERVO MESH SP 320	1250	28-11-2018
	24102018-10392	Stevenferzzz	DEPTTEST	GEAR	1	MECHATEST	SERVO PRIDE ALT 15W-40	100	24-10-2018
	05122018-10413	Stevenferzzz	DEPTTEST	TEST APP	1	MECHATEST	SERVO STEEL 680 1	1231	05-12-2018

Showing 1 to 4 of 4 entries

Previous 1 Next

To acknowledge the same, LAB has click on the sample id link and it will ask for user's confirmation pop up whether the sample has been received physically or not.

Choose...

Select Option:(If rejecting)

Select an option

CONFIRM REJECT CANCEL

In here the lab can also reject the sample if needed. But first he/she has to select the reason for rejecting. Once selected, the lab user can reject the sample.

Note: On rejecting a mail will be send to the TSE (assigned to customer) and lab user for reference. Also for confirming, there is no need to select an option.

After clicking on "Confirm", it will show the details of the sample. Some of the attributes are read only like **Industry, Customer, Application, Equipment, Product, Sample drawn in ml, Top Up Quantity between <previous_sample_date> and <today's date> , Sample Created Date, Parameters needed to be Tested for, Comments on Sample, Reasons for Priority.**



Receive Sample			
Industry STEEL	Customer Rashtriya Ispat Nigam Limited	Application Turbine Governor system	
Equipment E17-TG 4 governor system		Product SERVO SYSTEM HLP 46	
Sample Drawn in ml *	TOP UP Quantity between 13-01-2017 and 04-05-2017 *		Sample Created Date *
500	0		04-05-2017
Parameters needed to be Tested for *			
KV@40 APPEARANCE KV@100 VISCOCITY INDEX FOAMING Test,Tend/Stab-Seq I FOAMING Test,Tend/Stab-Seq II FOAMING Test,Tend/Stab-Seq III DEMULSIBILITY FLASH POINT TAN			
Comments on Sample Comments on Sample		Reasons for Priority Reasons for Priority of Sample	
Comments on Sample Received		Parameters' Result Expected Date *	
		22-06-2017	
SUBMIT			

For high priority sample, background color will be red colored. During acknowledgement of the sample, user can write **“Comments on Sample Received”** and change the date for the **“Parameters' Result Expected Date”**. By default, the parameter **“Parameters' Result Expected Date”** is populated based on the priority logic.

- I. If it is high priority sample, then it will be 2 days prior to the current date
- II. If it is medium priority sample, then it will be 3 days prior to the current date.
- III. If it is normal priority sample, then it will be 3 days prior to the current date.

Receive Sample			
Industry STEEL	Customer Rashtriya Ispat Nigam Limited	Application Nitrogen Compressor	
Equipment Nitrogen compressor-5		Product SERVO PRIME 57	
Sample Drawn in ml *	TOP UP Quantity between 06-05-2017 and 21-06-2017 *		Sample Created Date *
500	3000		21-06-2017
Parameters needed to be Tested for *			
KV@40 WEAR METAL APPEARANCE KV@100 VISCOCITY INDEX FOAMING Test,Tend/Stab-Seq I FOAMING Test,Tend/Stab-Seq II FOAMING Test,Tend/Stab-Seq III DEMULSIBILITY FLASH POINT TAN			
Comments on Sample Comments on Sample		Reasons for Priority Reasons for Priority of Sample	
Comments on Sample Received		Parameters' Result Expected Date *	
		10-07-2017	
Reason when Parameters' Result Expected Date is beyond 5 Days *			
Select reason when Parameters' Result Expected Date is more than 5 Days			
SUBMIT			

If expected date is more than 5 days w.r.t. today's date then user has to select reason from the drop down populated.

Reason when Parameters' Result Expected Date is beyond 5 Days *
Select reason when Parameters' Result Expected Date is more than 5 Days
Select reason when Parameters' Result Expected Date is more than 5 Days
Instrument Not Working
Sent to another Lab
Sent to R&D
Any Other Reason

If "Instrument Not Working" is chosen then system will show list of equipments under that lab. User has to choose the respective instrument from the drop down populated.

Which Equipment not Working? *
Select Equipment
Select Equipment
Autotitrator (TAN)
X-ray fluorescence analyser
FT IR
Flash point apparatus Auto COC
Electronic Balance I
Electronic balance II
Pour point apparatus
Flash point apparatus COC manual

Once all the data is filled up and user submits the same then system checks the required validation and accordingly asks for confirmation if it passes the validation.

<p>Confirm</p> <p>Are you sure you want to Acknowledge this Sample?</p> <p>YES NO</p>
--

After confirming the same, it will show success message that the sample has been received successfully



SAMPLE RECEIVE STATUS ✕

Your Sample ID: 21062017-10574 Has Been Received for Testing SUCCESSFULLY

1.2.3 Process:

Go to **Servo CMP** → **Process**.

It will show the summary of all the samples which are already received and result data are yet to be entered.

SAMPLE ID	CUSTOMER NAME	DEPARTMENT	APPLICATION	TANK NO	EQUIPMENT	PRODUCT	QTY DRAWN(L)	DRAWN ON	RECEIVED ON
12052017-10532	Rashtriya Ispat Nigam Limited	WRM-2	No Twist Mill Blocks, hydraulic systems	2	FINISHING BLOCK LUBE SYSTEM (C1)	MOBIL VACUOLINE 525	1000	12-05-2017	31-05-2017
12052017-10531	Rashtriya Ispat Nigam Limited	WRM-2	No Twist Mill Blocks, hydraulic systems	2	FINISHING BLOCK LUBE SYSTEM (C2)	MOBIL VACUOLINE 525	1000	12-05-2017	31-05-2017
04052017-10514	Rashtriya Ispat Nigam Limited	TPP	Turbine(BHEL) 67.5 MW	1	E16-TG 4 lube system	SERVO PRIME 46T	500	04-05-2017	08-05-2017
29042017-10486	Rashtriya Ispat Nigam Limited	WRM	finishing block tank-3NTM Blocks	1	Cellar-7 (stand by tank for NTM blocks)	MOBIL VACUOLINE 525	1500	29-04-2017	04-05-2017
24052017-10551	Rashtriya Ispat Nigam Limited	WRM-2	No Twist Mill Blocks, hydraulic systems	1	FINISHING BLOCK LUBE SYSTEM (C1)	MOBIL VACUOLINE 525	34	24-05-2017	24-05-2017
04052017-10507	Rashtriya Ispat Nigam Limited	TPP	Turbine Governor system	1	ED9-TG3 governor system	SERVO SYSTEM HLP 46	500	04-05-2017	08-05-2017
21062017-10574	Rashtriya Ispat Nigam Limited	UTILITIES	Nitrogen Compressor	1	Nitrogen compressor-5	SERVO PRIME 57	500	21-06-2017	03-07-2017
29042017-10489	Rashtriya Ispat Nigam Limited	WRM	No Twist Mill Blocks	1	finishing block Cellar-7	MOBIL VACUOLINE 525	500	29-04-2017	04-05-2017
29042017-10402	Rashtriya Ispat Nigam Limited	MMSM	Mill Train hyd system	1	Cellar-211 hyd system	SERVO SYSTEM HLP 46 N	500	29-04-2017	04-05-2017
29042017-10481	Rashtriya Ispat Nigam Limited	MMSM	LHS saw hyd system	1	Cellar-52 hyd system	SERVO SYSTEM HLP 46 N	500	29-04-2017	04-05-2017

Showing 1 to 10 of 58 entries

To process the same, LAB user has click on the sample id link for the entered the test result and below page will be appearing.

Enter Test Result(s)

Sample Id	Customer	Product	Laboratory	Taken Date
26042017-10436	RASHTRIYA ISPAT NIGAM LIMITED	SERVO PRIME 57	CSL MADHAVARAM	26-04-2017

Test Value Alert → Within Range Beyond Range Incorrect Format

Parameters to be Tested	Method	Specification	Value	Remarks
KV@40	ASTM D 445	55.6 <= x <= 59.4	Test value <input type="text"/> cst	Conclusion of the Test
FOAMING Test,Tend/Stab- Seq I	ASTM D 892	<= 0/0	Test value <input type="text"/> ml	Conclusion of the Test
TAN	ASTM D 664/974	0 <= x <= 0.1	Test value <input type="text"/> mg KOH/gm	Conclusion of the Test
FOAMING Test,Tend/Stab-Seq II	ASTM D 892	<= 0/0	Test value <input type="text"/> ml	Conclusion of the Test
VISCOSITY INDEX	ASTM D 2270	>= 95	Test value <input type="text"/>	Conclusion of the Test
KV@100	ASTM D 445	= 7.7 (10%)	Test value <input type="text"/> cst	Conclusion of the Test

Enter your Remarks(Max: 90 chars)

Choose file

REJECT
GO BACK
REVIEW | SUBMIT

Sample Id is coming with “red” colored means the sample is having the high priority. The list of parameters are the parameters what TSE has selected for



the testing the sample. It also shows the respective test “Method” and “Specification” (as maintained in the master data)

Test Value Alert → Within Range Beyond Range	
Specification	Value
43.5 < x < 57.5	45 cst
	SELECT visual
=6.7(10%)	6.9 cst
> 98	94

When lab user enters the test data against the test parameter then in the color of the text box changes based on the data ranges. If data entered are within the specified range then it will be green colored and if it is not within the range then it will appear as red colored.

LAB user can upload any PDF file using the Upload PDF file option. User has to enter data against all the test parameters as all are mandatory only. Also user has to write overall final remarks regarding that sample testing and submit the same.

Final remarks *	Upload PDF file (optional): <input type="button" value="Choose file"/>
<input type="text" value="Enter final remarks *"/>	<input type="text"/>

If all the mandatory data are entered then system asks for the confirmation for the submission. Once it is submitted successfully it redirects to the process summary page and mail is being triggered to customer keeping CSL and LAB in the CC.

From: no-replyServocmp@indianoil.in
 To: Sen, Gourab (गौरव सेन)
 Cc: Abhishek Kumar, Verma (अभिषेक कुमार); Manikandan, D (डी मणिकंदन)
 Subject: Status of the Sample Id : 26042017-10436

Dear Shri Hari Babu,
 The sample id 26042017-10436 has been tested and submitted to TSE(A K Verma) , you will receive the final test report very shortly. This is for your kind information

*** This is a system generated email. Please do not reply to this email id. ***

Here the lab user can also reject the sample if needed by clicking on ‘**reject**’ button.



1.2.4 Forwarded to TSE:

One can view the test result send to TSE after processing in **Servo CMP**→**Forwarded to TSE**.

Sample(s) sent to Tse

PRIORITY → (NORMAL) MEDIUM (HIGH) Single Sample Type → Normal Sample Type →

Filter:
 Select Customer* Select Department* Select Application* Select Product*
 Select Customer Select Department Select Application Select Product

Search By
 Search Records by Product Name

Show 10 entries

SAMPLING TYPE	SAMPLE ID	CUSTOMER NAME	DEPARTMENT	APPLICATION	TANK NO	EQUIPMENT	PRODUCT
	03122019-10412	Stevenferozz	DEPTTEST	TEST APP	TK1	MECHATEST	SERVO STEEL 600 1

Showing 1 to 1 of 1 entries

On clicking the ID, It will show that particular sample.

1.2.5 Forwarded to Customer:

One can view the test result send to TSE after processing in **Servo CMP**→**Forwarded to Customer**.

Sample(s) Forwarded to Customer

PRIORITY → (NORMAL) MEDIUM (HIGH) Single Sample Type → Normal Sample Type →

Filter:
 Select Customer* Select Department* Select Application* Select Product*
 Select Customer Select Department Select Application Select Product

Search By
 Search

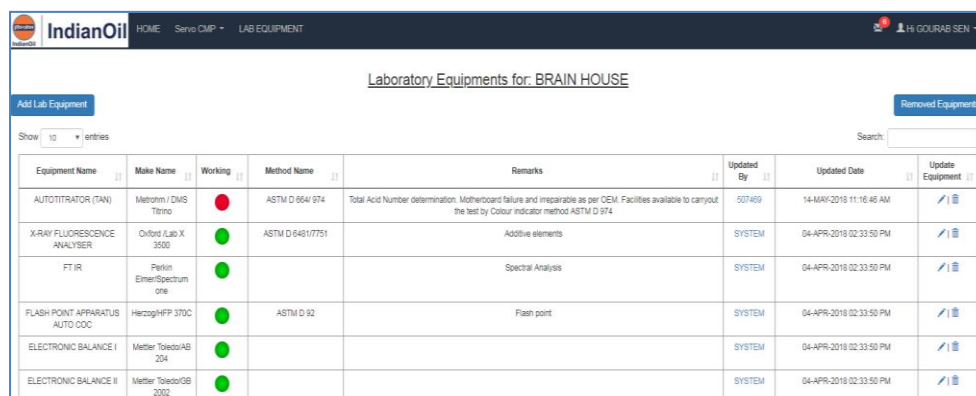
Show 10 entries

SAMPLING TYPE	SAMPLE ID	CUSTOMER NAME	DEPARTMENT	APPLICATION	TANK NO	EQUIPMENT	PRODUCT	QTY DRAWN(L)	DRAWN DATE
	11122019-10417	IndiCust	INDUSTDEPT	GEAR	021	EQUIPMENT1	SERVO MESH SP 320	1000	11-12-2018
	28112019-10409	FernandesRick	MECHDEPARTMENT	TEST APP	001	NICKS EQUIPMENT	SERVO MESH SP 320	800	28-11-2018
	03102019-10389	FernandesSteven	IS TEAM 1	TURBO CHARGER	001	SPEED ACCELERATORS	STEVENSONS	880	03-10-2018
	21032019-10371	FernandesSteven	IS TEAM 1	TURBO CHARGER	001	SPEED ACCELERATORS	SPEAR CHARGES	800	21-09-2018
	03102019-10388	FernandesSteven	IS TEAM 1	TURBO CHARGER	001	SPEED ACCELERATORS	STEVENSONS	880	03-10-2018
	03102019-10390	FernandesSteven	IS TEAM 1	TURBO CHARGER	001	SPEED ACCELERATORS	STEVENSONS	880	03-10-2018
	03122019-10411	Stevenferozz	DEPTTEST	TURBO CHARGER	001	MECHATEST	SERVO MESH SP 320	1000	03-12-2018
	19122019-10403	TobyTaser	DEPTFORTESTER	GEAR	011	EQUIPGGEAR	SERVO MESH SP 320	944	19-12-2018
	21012019-10406	FernandesRick	MECHDEPARTMENT	TEST APP	001	NICKS EQUIPMENT	SERVO MESH SP 320	800	21-01-2019
	21122019-10400	Stevenferozz	DEPTTEST	TURBO CHARGER	011	SCREWDRIVER	SERVO MESH SP 320	400	21-12-2018













On clicking the ID, It will show that particular sample.

1.2.6 Lab Details

1. Lab Equipment:

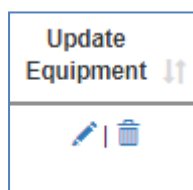




The screenshot shows the 'LAB EQUIPMENT' page for 'BRAIN HOUSE'. It includes a table with columns: Equipment Name, Make Name, Working, Method Name, Remarks, Updated By, Updated Date, and Update Equipment. The table lists several pieces of equipment, including an AUTOTITRATOR (TAN), X-RAY FLUORESCENCE ANALYSER, FT IR, FLASH POINT APPARATUS, and two ELECTRONIC BALANCE units. The 'Working' column uses green and red dots to indicate status.

Equipment Name	Make Name	Working	Method Name	Remarks	Updated By	Updated Date	Update Equipment
AUTOTITRATOR (TAN)	Mettrom / DMS Titrim	●	ASTM D 654/ 974	Total Acid Number determination. Motherboard failure and inoperable as per OEM. Facilities available to carryout the test by Colour indicator method ASTM D 974	507459	14-MAY-2018 11:16:48 AM	 
X-RAY FLUORESCENCE ANALYSER	Oxford (Lab X 3500)	●	ASTM D 6481/7751	Additive elements	SYSTEM	04-APR-2018 02:33:50 PM	 
FT IR	Perkin ElmerSpectrum one	●		Spectral Analysis	SYSTEM	04-APR-2018 02:33:50 PM	 
FLASH POINT APPARATUS AUTO COC	HerzogHFP 370C	●	ASTM D 92	Flash point	SYSTEM	04-APR-2018 02:33:50 PM	 
ELECTRONIC BALANCE I	Mettler ToledoAB 204	●			SYSTEM	04-APR-2018 02:33:50 PM	 
ELECTRONIC BALANCE II	Mettler ToledoGB 2002	●			SYSTEM	04-APR-2018 02:33:50 PM	 

This page is used view the status of the equipment created.

On clicking **Add Lab Equipment** button, new equipment can be added. On clicking **Removed Equipments** button, a dropdown will appear for deleting any equipment. In the table, the working column signifies if the respected equipment is working or not. ● means its in working condition. ● means its in not working condition and are unable to use for sampling.



Here, the  is used to edit a new equipment and  is used to delete an equipment.

2. Lab Test Specification

This is a view only page. It is only used to check test specification assigned to products.

There are 6 specifications respectively. That is.,

Min – takes one input, a test case for checking a value is more than given input number.

Max - takes one input, a test case for checking a value is less than given input number.

MinMax – takes two numbers, a test case for checking if a value is between these two input numbers.

Novalidation – the test case where the test value doesn't matter



Eqchk – the test case where the test result and input number should be the same.

OthVal – It makes the test case a list values which can assigned by redirecting to Other Values Specification Page. These values can differ as it is user defined.

Max with delimiter – is a **deviation** that is the difference between the observed value and an estimate of the true value.

TEST SPECIFICATION VIEW										
Filter: Select Product * (1) SERVO MESH SP 320 10										
<div>Excel</div> <div>Column visibility</div> <div>Search:</div>										
Product Name	Test Name	Value Check	MIN	MAX	EQUAL	DEVIATION	MAX (DELIMITER)	OTHER	Updated By	Updated Date
SERVO MESH SP 320 10	CSD	>= 15	15	N/A	N/A	N/A	N/A	N/A	507469	12-NOV-2018 02:49:09 PM
SERVO MESH SP 320 10	ASCAC	12 <= x <= 30	12	30	N/A	N/A	30	N/A	508741	11-DEC-2018 03:54:24 PM
SERVO MESH SP 320 10	KV@40	320 <= x <= 345	320	345	N/A	N/A	345	N/A	508741	24-MAY-2018 04:12:04 PM
SERVO MESH SP 320 10	KV@100	= 24.1 (10%)	N/A	N/A	24.1	10	N/A	N/A	SYSTEM	24-APR-2018 10:18:46 AM
SERVO MESH SP 320 10	VISCOSITY INDEX	>= 90	90	N/A	N/A	N/A	N/A	N/A	SYSTEM	24-APR-2018 10:18:46 AM
SERVO MESH SP 320 10	FOAMING Test,Tend/Stab- Seq I	<= 0/1	N/A	0/1	N/A	N/A	0/1	N/A	507469	10-DEC-2018 10:53:18 AM
SERVO MESH SP 320 10	FOAMING Test,Tend/Stab-Seq II	<= 0/0	N/A	0/0	N/A	N/A	0/0	N/A	SYSTEM	24-APR-2018 10:18:46 AM
SERVO MESH SP 320 10	FOAMING Test,Tend/Stab-Seq III	<= 0/0	N/A	0/0	N/A	N/A	0/0	N/A	SYSTEM	24-APR-2018 10:18:46 AM
SERVO MESH SP 320 10	DEMULSIBILITY	<= 25	N/A	25	N/A	N/A	25	N/A	SYSTEM	24-APR-2018 10:18:46 AM
SERVO MESH SP 320 10	FLASH POINT (COC)	>= 232	232	N/A	N/A	N/A	N/A	N/A	SYSTEM	24-APR-2018 10:18:46 AM

3. Lab Test Status Master

This Page is used to view/edit the Lab s Test Parameter available for testing. This page is solely created for the TSE to know if the required test is available in his/her lab.

By clicking the active/inactive button, the Test Parameter status can be toggled. The Status of the Test Parameter is shown in the 3 column (Active Status). If green sphere, then the Test parameter is available for testing else if red sphere, then the Test parameter is not available for testing.

Control Manager				
<div>Excel</div> <div>Column visibility</div> <div>Search:</div>				
Test ID	Test Name	Active Status	Change	
1	KV@40	●	Active/Inactive	
10	WEAR METAL	●	Active/Inactive	
11	APPEARANCE	●	Active/Inactive	
12	TEST1251	●	Active/Inactive	
13	CSD	●	Active/Inactive	
14	ASCAC	●	Active/Inactive	
2	KV@100	●	Active/Inactive	
22	TESTTODAY35	●	Active/Inactive	
26	BLAH	●	Active/Inactive	



2.0 Existing Features/Functionalities Modified

This is the first release.

3.0 Existing Features/Functionalities Removed

This is the first release.

1.0 Issues Resolved(Bugs If any)

This is the first release.