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Unapproved Minutes of the O arej 38, 2013
Sequence IV Surveillance Panel Conference Call.

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The following individuals/Companies were represented on the Conference call:
Bill Buscher, Fred Gerhart, Ben Weber, Southwest Research Institute.
Andy Ritchie, Gordon Farnsworth, Doyle Boese, Infineum.
Jason, Dwight and Matthew Bowden, OHT Technologies.
Adam Sworski and Tim Caudill, Ashland.
Dave Glaenzer and Christian Porter, Afton.
Mark Mosher, ExxonMobil.
Mark Sutherland, Zack Bishop, Clayton Knight, TEI.
Jim Rutherford, Oronite.
Al Lopez, Intertek.
Rich Grundza and Frank Farber, TMC.
Ron Romano, Ford.
Jerry Brys, Jessica Buchanan, George Szappanos, Lubrizol.

March 18, 2013 IV Conference Call Minutes

Teri Kowalski and Jim Linden, Toyota.
Tracy King, Haltermann.

The call was initiated by Chairman Buscher at 2 PM Eastern Time.

The reason for the conference call was to review reference oil targets for the IVA test. Bill Buscher explained that one item that was addressed in the Test Monitoring Center Issue Resolution which indicated that the panel needed to review the reference oil targets to determine what data should be used for targets going forward. The Test Monitoring Center (TMC) had circulated a presentation prior to the call which identified that there were 14 reground cams that OHT was not able to verify met the Nissan Specification. Bill noted over two hundred cams were found to meet the specifications, and unfortunately, the cams were not serialized, only the boxes were marked and the laboratory was not aware of the significance of the box identification. The laboratory could not determine if these 14 cams were run in a reference oil tests and the TMC had coded all lab A reground results as non chartable. Control charts with and without the reground were reviewed as well as the memo which documented the current targets used for charting reference oil tests. This presentation is included as attachment 1. Discussions on the impact of removing these tests and using all operationally valid results since the last target update indicated there was not a large difference when the reground data is included with all operationally valid results. After more discussion, the panel approved a motion to use all operationally valid data, plus two additional results that were to be reported shortly to generate targets with an n size of 29 results. This motion was approved by a vote of 7 for, no against and 7 waives. These targets are to take effect March 20, 2013.

Dwight Bowden indicated that all future reground cams will be serialized and the panel assigned an action item to the TMC to revised the report forms to include a field in which to document this serial number.

The conference call ended at 2:50 PM Eastern Time. A few members remained on the line to discuss hardware purchasing from Nissan.

Sequence IVA Target Discussion

Sequence IVA
March 18, 2013

IVA Target Discussion

- Lab A has 14 re-ground camshafts that OHT was not able to confirm met the Nissan spec.
- The lab does not know if these camshafts were run in reference oil test.
- All other Lab A camshafts were found to meet the spec.

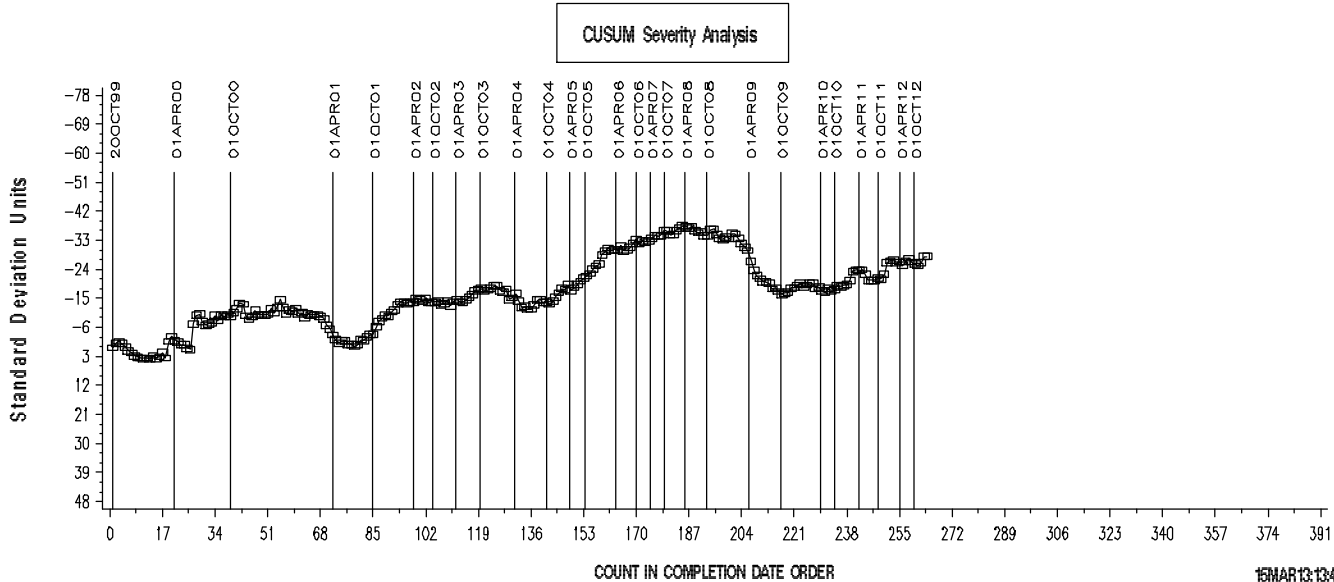
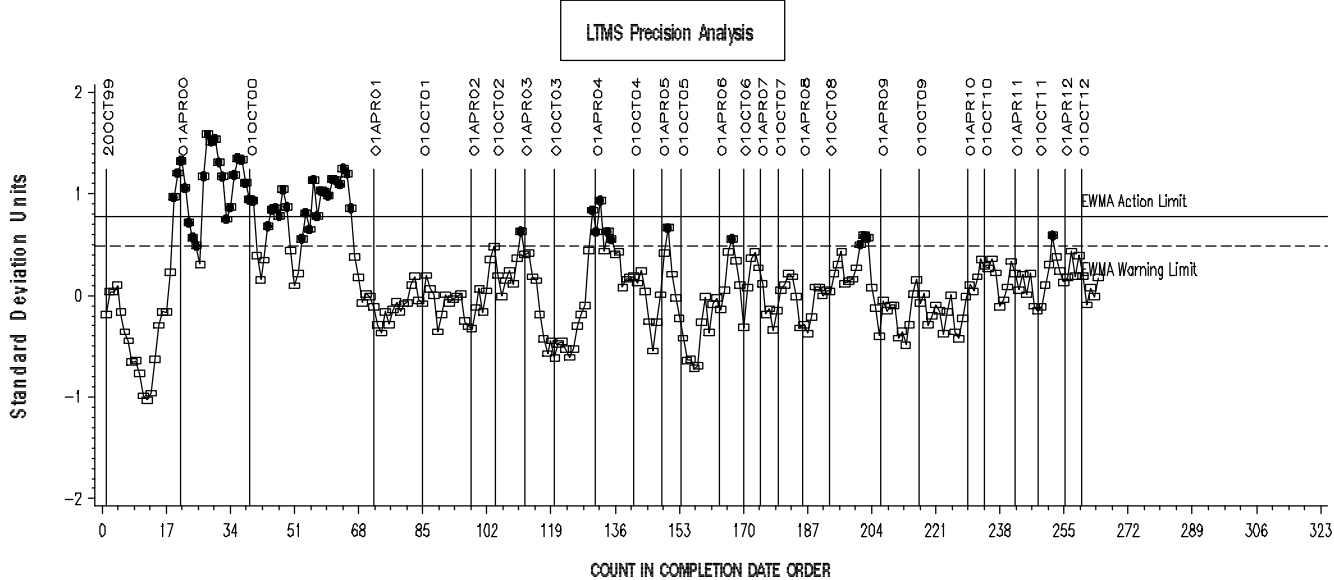
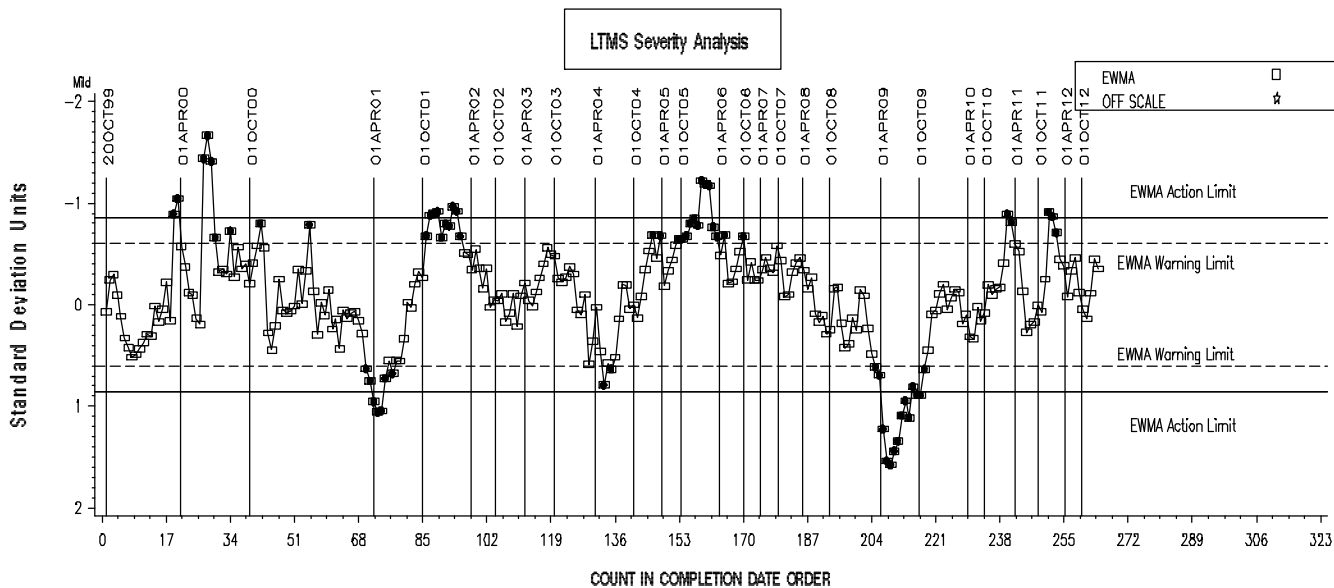
IVA Target Discussion

- The TMC has coded all Lab A re-ground camshaft tests as non-chartable.
- Sequence IVA Surveillance Panel should discuss if targets need to be re-calculated.

SEQUENCE IVA INDUSTRY OPERATIONALLY VALID DATA

Non Charted Reground Cam Results Removed

AVERAGE CAM WEAR



SEQUENCE IVA INDUSTRY OPERATIONALLY VALID DATA

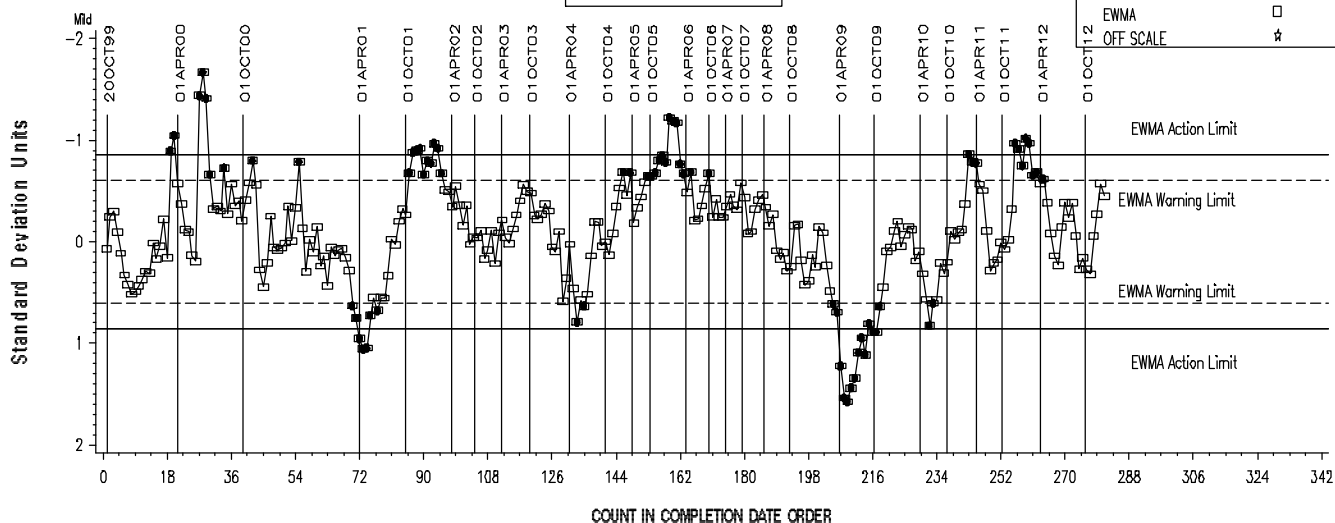
With Reground Cam Results

AVERAGE CAM WEAR



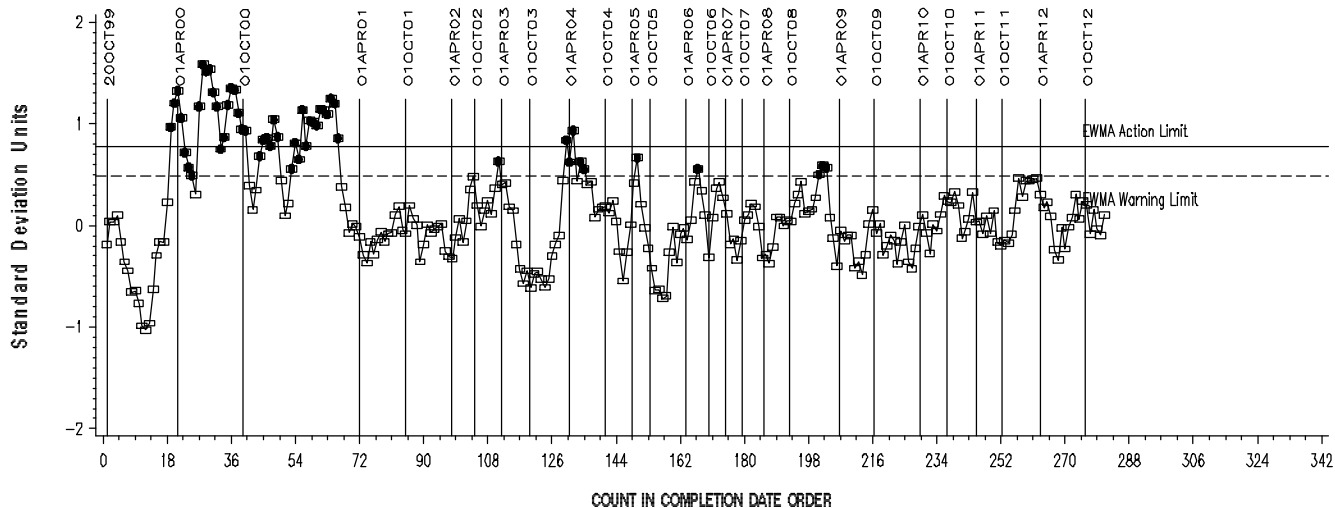
A Program of ASTM International

LTMS Severity Analysis



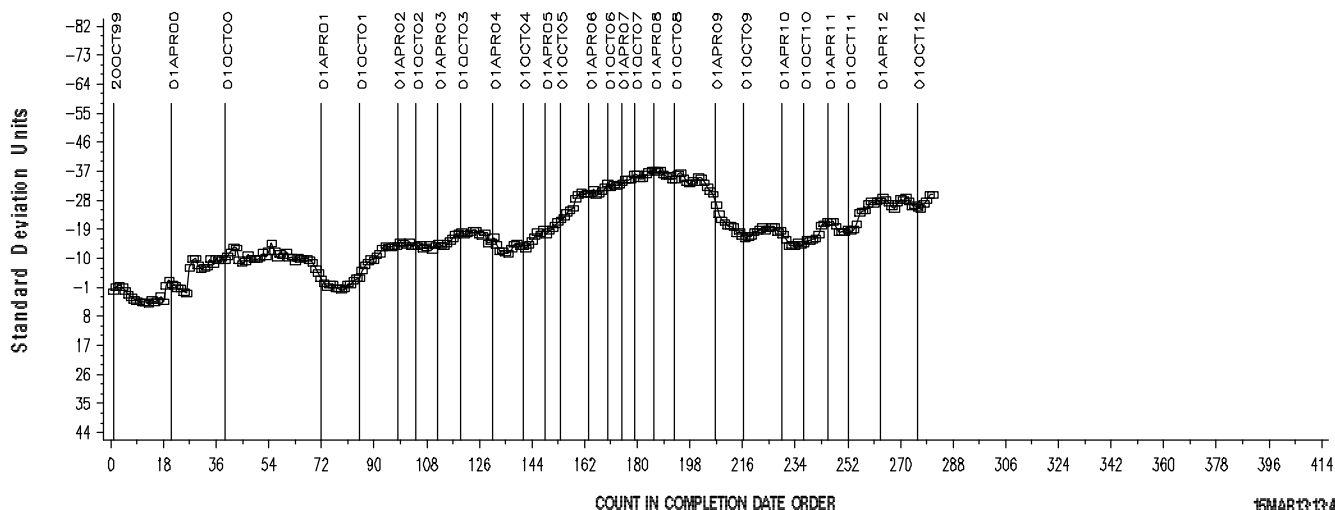
COUNT IN COMPLETION DATE ORDER

LTMS Precision Analysis



COUNT IN COMPLETION DATE ORDER

CUSUM Severity Analysis





Test Monitoring Center

Carnegie Mellon University
6555 Penn Avenue, Pittsburgh, PA 15206, USA

<http://astmtmc.cmu.edu>
412-365-1000

MEMORANDUM: 12-026

DATE: July 16, 2012

TO: Sequence IV Surveillance Panel

FROM: Richard E. Grundza

SUBJECT: Target Update Reference Oil 1006-2 and Updated Standard Deviation for SA's

On the July 12, 2012 Sequence IV Surveillance Panel conference call, the panel approved an update to the means and standard deviations for the ACW parameter for reference oil 1006-2, based upon the data presented at that meeting.

The updated targets, which went into effect on July 11, 2012, are shown in the following table:

Oil	Mean	S
1006-2	103.39	13.68

During the same Sequence IV Surveillance Panel conference call, the panel approved an update to the standard deviations for severity adjustment calculations. The standard deviation, 14.87 is a pooled standard deviation calculated from reference oil 1007 (n=31) and the fifteen results obtained on reference oil 1006-2, which were used for the target update.

Attached Figure 1 plots the data against the new and old targets for ACW. Table 1 lists the data for reference oil 1006-2 used in the target calculation and pooled with the thirty one results in the original target data set for reference oil 1007. The new standard deviation will be applied to tests completing on or after July 11, 2012. Please contact me if you have any questions.

c: <ftp://ftp.astmtmc.cmu.edu/docs/gas/sequenceIV/memo/mem12-026.reg.pdf>

Distribution: email

Figure 1

Sequence IVA (Reference Oil 1006-2) Test Target Data Set and Shewart Severity Limits

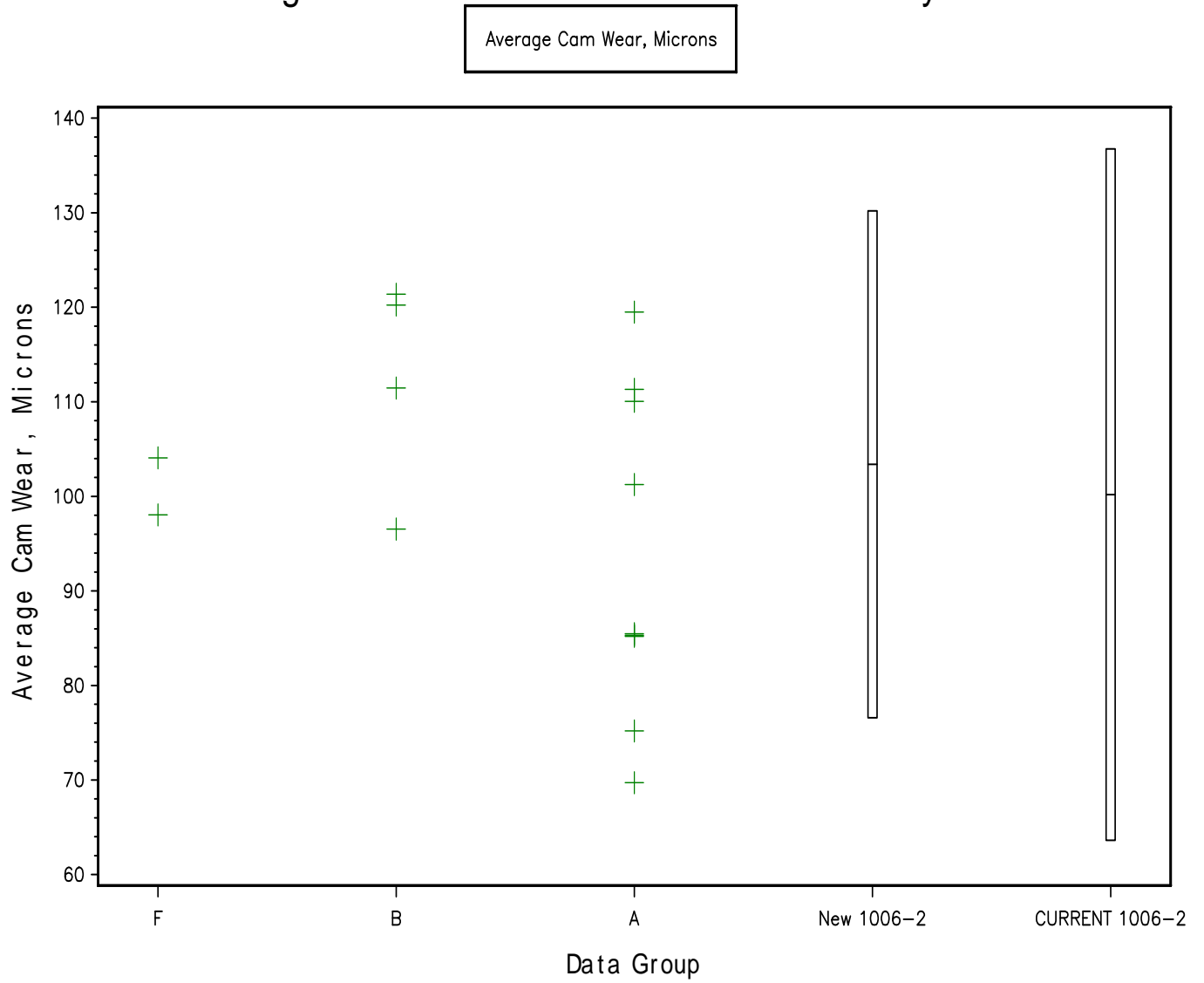


Table 1
Reference Oil Test Results

<u>TESTKEY</u>	<u>LTMSLAB</u>	<u>LTMSDATE</u>	<u>IND</u>	<u>VAL</u>	<u>ACW</u>	<u>SA</u>	<u>Severity Adjusted Result</u>
80991	B	20110809	1006-2	AG	120.24	0	120.24
84235	F	20111002	1006-2	AG	104.60	0	104.60
78808	A	20111009	1006-2	AG	101.24	0	101.24
84565	A	20111110	1006-2	AG	75.19	9.65	84.84
86108	B1	20120208	1006-2	AG	96.55	0	96.55
85064	A	20120213	1006-2	AC	85.48	16.567	102.047
86679	B1	20120226	1006-2	AC	111.47	0	111.47
86688	A	20120321	1006-2	AC	85.31	15.357	100.667
84326	F	20120328	1006-2	AC	98.05	0	98.05
86689	A	20120418	1006-2	AC	85.2	14.538	99.738
86690	A	20120423	1006-2	AC	110.04	0	110.04
87577	A	20120522	1006-2	AC	119.48	0	119.48
86680	B1	20120522	1006-2	AC	121.37	0	121.37
87578	A	20120616	1006-2	AC	111.32	0	111.32
87579	A	20120624	1006-2	AC	69.72	0	69.72