

Delivering Rapid Innovation by Driving Collaboration to New Levels

Phil Smith | Integrated Business Planning – Portfolio Lead Xtrac





Who are Xtrac?

• World leader in Motorsport and High-Performance Automotive gearboxes



- Sole supplier to IndyCar, NASCAR, IMSA/ACO LMDh, Australian Supercar & BTCC
- Supplier to F1, Formula E, MotoGP, Dakar, Off Road (Baja), Le Mans Hypercar



Who are Xtrac?

World leader in Motorsport and High-Performance Automotive gearboxes



 Sunday 12th June 2022 saw Xtrac parts & transmissions being used around the world





Xtrac & Planview

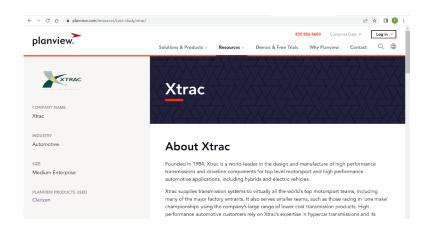
- Prior to joining Planview Clarizen, Xtrac utilised MS Project and MS Excel for project planning and management.
- Xtrac selected Planview Clarizen as supplier in 2015
 - Proj-X (Internal branding) launched Jan 2016 for 110 users
 - By 2022 this has expanded to 150 users across 3 sites
 - Engineering design Teams
 - Production Planning
 - Commercial Team
 - Build & Test Teams





Xtrac Case Study

- In late 2017 Xtrac featured in a Planview Clarizen case study
 - This was followed by a video case study in 2018





• Both focused on the savings Xtrac had realised due to moving to Planview Clarizen.





Strategic planning

- 24 month planning
- Template driving actual resource projection
- Built-in powerful heatmap in Capacity Planning
- Exported data used for 'traditional' stacked area charting







Problem with remote collaboration

• Collaboration is key to efficient team delivery

• But what if the team is in different places or even time zones?







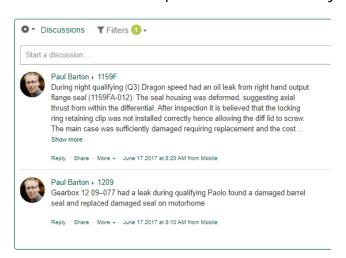
- And how to you collaborate when you have poor access to the tools?
 - Little or no access to WiFi means no collaboration with office.
- These are the issues Xtrac faces supporting our customers at tests and races.

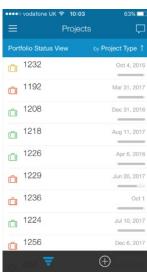




 Solution needed to use basic core functionality and be usable with the Mobile App

- Xtrac already used 'Discussions' to collaborate
 - But could we expand this into our race report functionality?





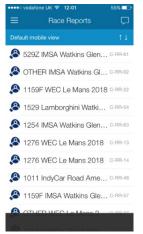




• Xtrac Race Reporting tool used newly introduced Planview Clarizen functionality.









 Able to consolidate the reports into a single thread and export to a MS Word report.





At 2019 Le Mans race



Alex Macdonald > 1159D - WEC - Le Mans - 2019

ByKolles - Shift Strategy Assistance

Met with: Boris Bermes



Boris called to request Xtrac's assistance while optimising their shift strategy during free practice on Wednesday. PBa to speak to Martin when he arrives at the circuit.



11590

Cc: WEC 2019

Reply · Share · More ▼ · June 12 2019 at 3:49 PM from Race Reports



Paul Barton

Met with Martin Kogler; they had an E-shift loom issue yesterday, which was identified by Norbert (Megaline); they replaced the E-Shift.

The team have little data, but are logging the barrel at 500Hz; they have ~20mV noise, and 50mV overshoots from nominal on good shifts (no D2D's seen).

The issue they are having is engine ringing on upshifts in the tall gears, so have reduced the amount of cut; good driver feedback so far. PB advised that changing the ignition ramp-in could also help with this, so we can review with Gibson and Norbert after the session.

The other observation was spikes in the barrel track signal; this is typically "noise/data", but with E-Shift it could be real movement (?). The team currently have no data from the E-shift so will add the channels

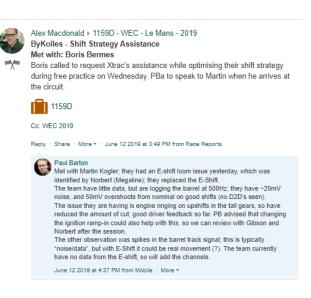
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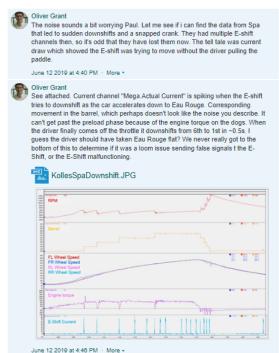




• Oliver Grant, Head of R&D at Xtrac, working in the office responded to the

discussion thread.











• Issue at track was investigated, redesigned, manufactured and delivered in 4

weeks

Paul Barton + 1159F - IMSA - Laguna Seca - 2019 Multimatic - Cracked 634-421-005B shaft nut Car: Mazda DPI

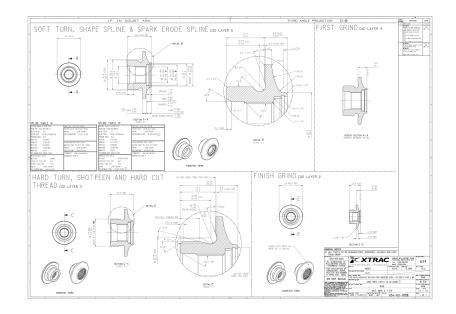


During pre-Laguna service on gearbox 1159FD-072 (SO93349), one shaft nut (634-421-005B) was found to be cracked. The part covered 4,000km in gearbox 1159FD-038 before completing 1,115 km at Rd America in 1159FD-072 so should have had 885km remaining. No mitigating circumstances known; to date this is the only B spec shaft nut failure we have experienced.







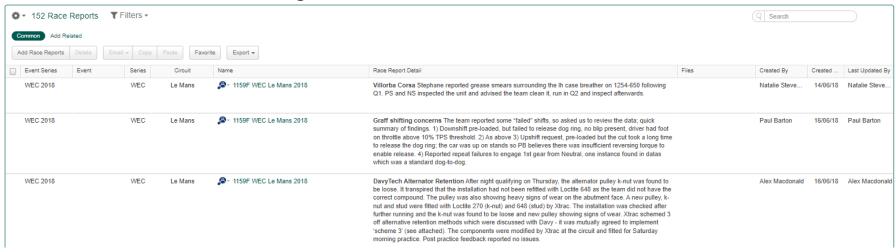






The challenges

- Details of the challenges faced
 - How to collate in project?
 - How to create a live blog function?







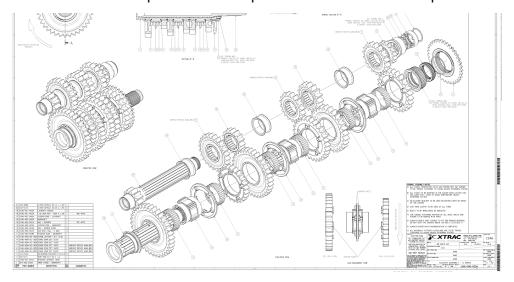
Expected Benefits

Race Reporting was expected to give 2 main benefits

• Rapid response from office to track support allowing rapid response to customer.

• Rapid commencement on updates to product due to rapid communication of

issue.







Extended Benefits

- Post race meeting word based report replaced with live blogging
- Saving over £35,000 each year

1 Works Manufacturers

1.1 Hono Team Dynamics (including Simpson Racing)

		-	•	_	•	٠,		•
Car	NGTC.	da Civic	Type R		Xtrac Product		1046	
Drivers	Matt Neal, Simpson	lon S	Shedden, M	att	Overall race re	esult	results	3
Met with	Jason Cul Rodgers	I, Barry F	man, Jar	mes	Ch'ship positi		See results	3

Team Dynamics reigning champion so from Shedden had the worst race weekend in two years as he found himself eliminated from the first two race of the day. Matt Neal converted his competitive qualifying position into a so. 5th in recone, but contact with Josh Cook resulted in a DNF for race two. Xtrac delivered to the ential cover O-ring (102-0436) to the team on Sunday. There were no gearbox issues for the sum of t

- No actions required

1.2 MG – Triple Eight Race Junearing (888)

		. ,
Car	NGTC MG6 GT	Xtrac Produ 1046
Drivers	Aron Taylor-Smit osh Cook	Overall race res. See results
Met with	Alex Steele Ferrari, Mick Cook	Ch'ship position results

Xtrac scrutineered on Cook's ratios and differential after qualifying, and no ves were found. Cook has been a race ban after a fourth reprimand at Rockingham. Os a ban means he will be required to sit out the first race at Silverstone. There were no go ox issues for it weam this weekend.

- No actions required





Lessons

Plan thoroughly

- Developing a full plan before starting helps ensure clarity of the objectives
- But remaining agile in mentality so we can adapt

Keep the goal in focus

- Multiple times we had the 'we could get it to do this' moments.
- Keeping the original objective in focus stopped us getting distracted.

Push the boundaries

 Just because no one has done it before and we're not sure how to do it, should not stop us from trying





Added value of Planview Clarizen

- Increased collaboration
- Reduced workload post-event
- Increased awareness of track support activities

• Just because no one has done it before and we're not sure how to do it, should not stop us from trying



planview



September 13-14, 2022

Thank you!

Phil Smith

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