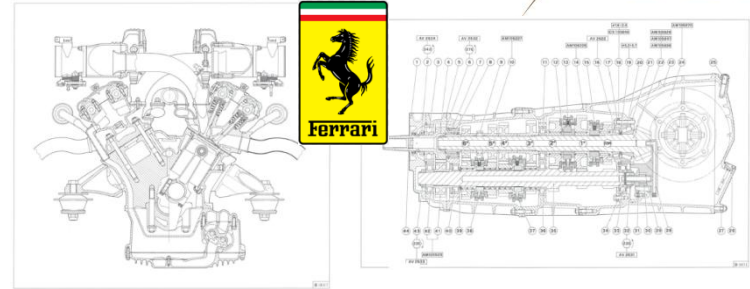


Case Study – Sourcing, Reconditioning, Rebuild and Test of a Complete Ferrari V12 Powertrain and Drivetrain to Original Factory Specifications



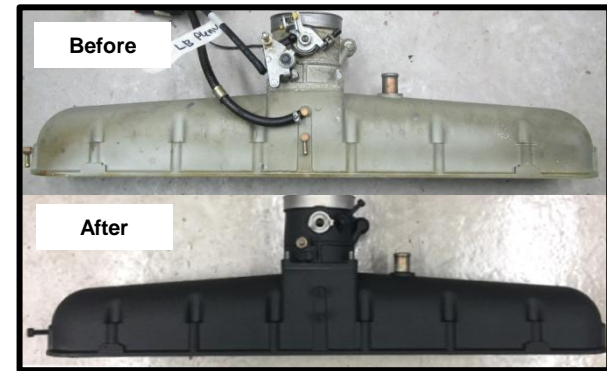
Background & Objectives

- Customer creating a short series of bespoke cars using Ferrari V12 powertrain.
- Quality and delivery concerns with existing supplier caused customer to turn to Mathwall.
- Requirement to minimise disruption to end customer due to change of supplier mid-project.



Project Outcome

- Use best practice programme management tools to control delivery of project to QTC.
- Full strip, inspection and reporting to determine re-use/reconditioning/replacement.
- Majority of reconditioning completed in house, supported by specialist suppliers where necessary.
- Plan and coordinate procurement activities.
- Assembled sub-systems comprehensively tested
- Detailed rebuild documentation recorded.
- Support for installation into new car and testing through to vehicle sign-off.



Engine inspection – Valvetrain (2 of 3)

Component	Part No.	QTY	Spec	Inspected	Pass	Fail	Notes
Valvetrain	1.741.01	1	1.741.01	1	1	0	OK
	1.741.02	1	1.741.02	1	1	0	OK
	1.741.03	1	1.741.03	1	1	0	OK
	1.741.04	1	1.741.04	1	1	0	OK
	1.741.05	1	1.741.05	1	1	0	OK
	1.741.06	1	1.741.06	1	1	0	OK
	1.741.07	1	1.741.07	1	1	0	OK
	1.741.08	1	1.741.08	1	1	0	OK
	1.741.09	1	1.741.09	1	1	0	OK
	1.741.10	1	1.741.10	1	1	0	OK
	1.741.11	1	1.741.11	1	1	0	OK
	1.741.12	1	1.741.12	1	1	0	OK
1.741.13	1	1.741.13	1	1	0	OK	
1.741.14	1	1.741.14	1	1	0	OK	
1.741.15	1	1.741.15	1	1	0	OK	
1.741.16	1	1.741.16	1	1	0	OK	
1.741.17	1	1.741.17	1	1	0	OK	
1.741.18	1	1.741.18	1	1	0	OK	
1.741.19	1	1.741.19	1	1	0	OK	
1.741.20	1	1.741.20	1	1	0	OK	
1.741.21	1	1.741.21	1	1	0	OK	
1.741.22	1	1.741.22	1	1	0	OK	
1.741.23	1	1.741.23	1	1	0	OK	
1.741.24	1	1.741.24	1	1	0	OK	
1.741.25	1	1.741.25	1	1	0	OK	
1.741.26	1	1.741.26	1	1	0	OK	
1.741.27	1	1.741.27	1	1	0	OK	
1.741.28	1	1.741.28	1	1	0	OK	
1.741.29	1	1.741.29	1	1	0	OK	
1.741.30	1	1.741.30	1	1	0	OK	
1.741.31	1	1.741.31	1	1	0	OK	
1.741.32	1	1.741.32	1	1	0	OK	
1.741.33	1	1.741.33	1	1	0	OK	
1.741.34	1	1.741.34	1	1	0	OK	
1.741.35	1	1.741.35	1	1	0	OK	
1.741.36	1	1.741.36	1	1	0	OK	
1.741.37	1	1.741.37	1	1	0	OK	
1.741.38	1	1.741.38	1	1	0	OK	
1.741.39	1	1.741.39	1	1	0	OK	
1.741.40	1	1.741.40	1	1	0	OK	
1.741.41	1	1.741.41	1	1	0	OK	
1.741.42	1	1.741.42	1	1	0	OK	
1.741.43	1	1.741.43	1	1	0	OK	
1.741.44	1	1.741.44	1	1	0	OK	
1.741.45	1	1.741.45	1	1	0	OK	
1.741.46	1	1.741.46	1	1	0	OK	
1.741.47	1	1.741.47	1	1	0	OK	
1.741.48	1	1.741.48	1	1	0	OK	
1.741.49	1	1.741.49	1	1	0	OK	
1.741.50	1	1.741.50	1	1	0	OK	
1.741.51	1	1.741.51	1	1	0	OK	
1.741.52	1	1.741.52	1	1	0	OK	
1.741.53	1	1.741.53	1	1	0	OK	
1.741.54	1	1.741.54	1	1	0	OK	
1.741.55	1	1.741.55	1	1	0	OK	
1.741.56	1	1.741.56	1	1	0	OK	
1.741.57	1	1.741.57	1	1	0	OK	
1.741.58	1	1.741.58	1	1	0	OK	
1.741.59	1	1.741.59	1	1	0	OK	
1.741.60	1	1.741.60	1	1	0	OK	
1.741.61	1	1.741.61	1	1	0	OK	
1.741.62	1	1.741.62	1	1	0	OK	
1.741.63	1	1.741.63	1	1	0	OK	
1.741.64	1	1.741.64	1	1	0	OK	
1.741.65	1	1.741.65	1	1	0	OK	
1.741.66	1	1.741.66	1	1	0	OK	
1.741.67	1	1.741.67	1	1	0	OK	
1.741.68	1	1.741.68	1	1	0	OK	
1.741.69	1	1.741.69	1	1	0	OK	
1.741.70	1	1.741.70	1	1	0	OK	
1.741.71	1	1.741.71	1	1	0	OK	
1.741.72	1	1.741.72	1	1	0	OK	
1.741.73	1	1.741.73	1	1	0	OK	
1.741.74	1	1.741.74	1	1	0	OK	
1.741.75	1	1.741.75	1	1	0	OK	
1.741.76	1	1.741.76	1	1	0	OK	
1.741.77	1	1.741.77	1	1	0	OK	
1.741.78	1	1.741.78	1	1	0	OK	
1.741.79	1	1.741.79	1	1	0	OK	
1.741.80	1	1.741.80	1	1	0	OK	
1.741.81	1	1.741.81	1	1	0	OK	
1.741.82	1	1.741.82	1	1	0	OK	
1.741.83	1	1.741.83	1	1	0	OK	
1.741.84	1	1.741.84	1	1	0	OK	
1.741.85	1	1.741.85	1	1	0	OK	
1.741.86	1	1.741.86	1	1	0	OK	
1.741.87	1	1.741.87	1	1	0	OK	
1.741.88	1	1.741.88	1	1	0	OK	
1.741.89	1	1.741.89	1	1	0	OK	
1.741.90	1	1.741.90	1	1	0	OK	
1.741.91	1	1.741.91	1	1	0	OK	
1.741.92	1	1.741.92	1	1	0	OK	
1.741.93	1	1.741.93	1	1	0	OK	
1.741.94	1	1.741.94	1	1	0	OK	
1.741.95	1	1.741.95	1	1	0	OK	
1.741.96	1	1.741.96	1	1	0	OK	
1.741.97	1	1.741.97	1	1	0	OK	
1.741.98	1	1.741.98	1	1	0	OK	
1.741.99	1	1.741.99	1	1	0	OK	
1.741.100	1	1.741.100	1	1	0	OK	

Table abbreviated
Full table recorded in build book

Component & assessment

Valve spring

Criteria

Defined in engine workshop manual (page-47)

Outcome

85 springs within tolerance and can be reused.
11 (all inner) springs failed and need replacement.

Status – AMBER
New parts required