

**CARS**

Our Ref: TA/USREP/573

Date: 28 September 2012

Chief
Recall Management Division
Office of Defects Investigation
National Highway Traffic Safety Administration
1200 New Jersey Avenue S.E.
Washington
D.C. 20590

Subject: Part 573 Recall Notice – Lotus Cars Limited

This information is submitted in accordance with the requirements of Title 49 Part 573 of the Code of Federal Regulations. Lotus Cars Limited (Lotus) has determined that certain 2011 model year Evora vehicles may have a defect that affects motor vehicle safety.

Annex A (attached) details defect information as required by the aforementioned regulation. Please contact the undersigned if you have any questions.

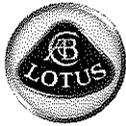
Yours sincerely

A handwritten signature in blue ink, appearing to read "I. Cawdron".

PP. Ian Cawdron
Principal Legislation Engineer
Type Approval Department
Lotus Cars Ltd
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Annexes:

- A. Defect Information Report
- B. Affected VIN Ranges
- C. VVT Oil Pipe Assembly



Defect Information Report

573.6(c)(1) **Manufacturers Name**

Full Corporate Name: Lotus Cars Limited

Designated Agent: Mr Arnold Johnson
Lotus Cars USA Inc

Official Contact: Mr Ian Cawdron
Principal Legislation Engineer
Email: icawdron@lotuscars.com
Tel: +44 (0)1953 608297

Customer Enquiries: Mr Ron Mann
Customer Services & Warranty Manager
Email: rmann@lotuscars.com
Tel: (770) 476 6564

573.6(c)(2)(i) **Identification of Vehicles**

Vehicles affected are 2011 model year Lotus Evora supercharged cars that have been built with a 3-part variable valve oil feed pipe assembly. This pipe incorporates a flexible hose section whereas later models utilise a 1-piece rigid pipe construction.

Make: Lotus
Line: Evora
Model Year: 2011
Month/Year of Manufacture: Feb 2011 – Sep 2011
Affected VIN: See Annexe B

573.6(c)(3) **Number of Vehicles Potentially Containing the Defect**

80 vehicles in the United States are affected by this recall:

2011MY Evora S 80

573.6(c)(4) **Percentage of Vehicles Actually Containing the Defect**

The percentage of vehicles estimated to actually contain the defect is: 100%



573.6(c)(5) **Description of Defect**

There have been a number of incidents where an engine mounted oil feed pipe has ruptured resulting in oil loss. The pipe is used to supply oil to the variable valve mechanism located in the engine cylinder head. In some cases this has caused engine damage and there have also been two reported cases of fire which may be related to this issue. Initial investigation has indicated that a flexible section of hose that forms part of the oil pipe assembly may be defective.

The pipe in question is a Lotus designed part, manufactured by Delta Aircraft Services Ltd and used exclusively on Evora supercharged variants.

573.6(c)(6) **Chronology of Principal Events**

Information to be submitted as soon as possible.

573.6(c)(7) **Non-Compliance Test Report**

Not applicable.

573.6(c)(8) **Proposed Remedial Program**

It is proposed that the variable valve timing oil feed pipe installed on affected vehicles is replaced with the latest level of part, which utilises a rigid pipe in place of the 3-piece assembly (see Annex C).

Subject to parts availability, notification dates are as follows:

Dealer notification: Information to be submitted as soon as possible.

Owner notification: Information to be submitted as soon as possible.

573.6(c)(10) **Representative Copy of all Notices, Bulletins etc**

Information to be submitted as soon as possible.

573.6(c)(11) **Customer Notification Letter and Reimbursement**

Information to be submitted as soon as possible.

573.6(c)(12) **Manufacturers Recall Code**

Information to be submitted as soon as possible.



CARS

Annexe B to
TA/USREP/573
Dated 28 Sep 2012

AFFECTED VIN RANGES

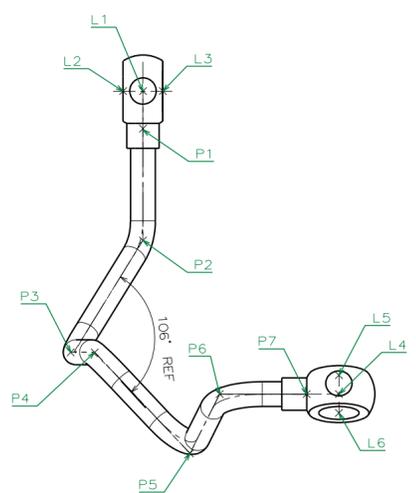
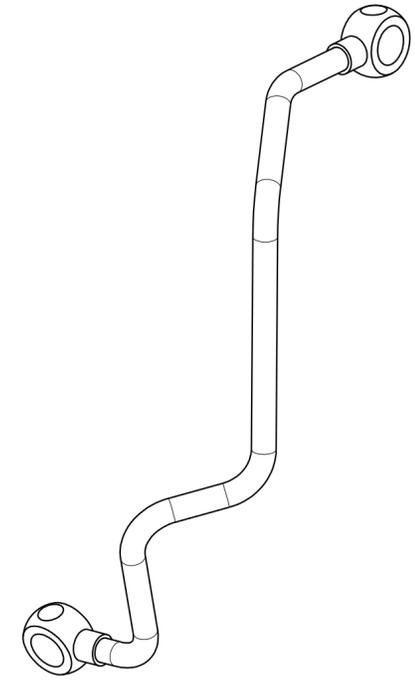
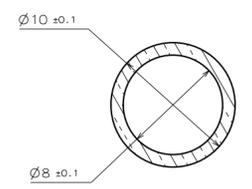
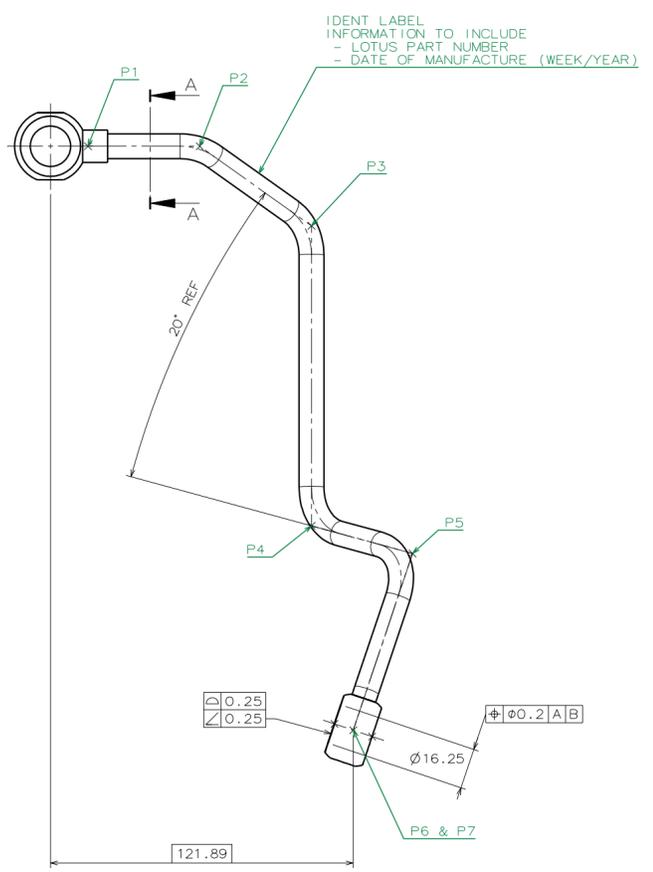
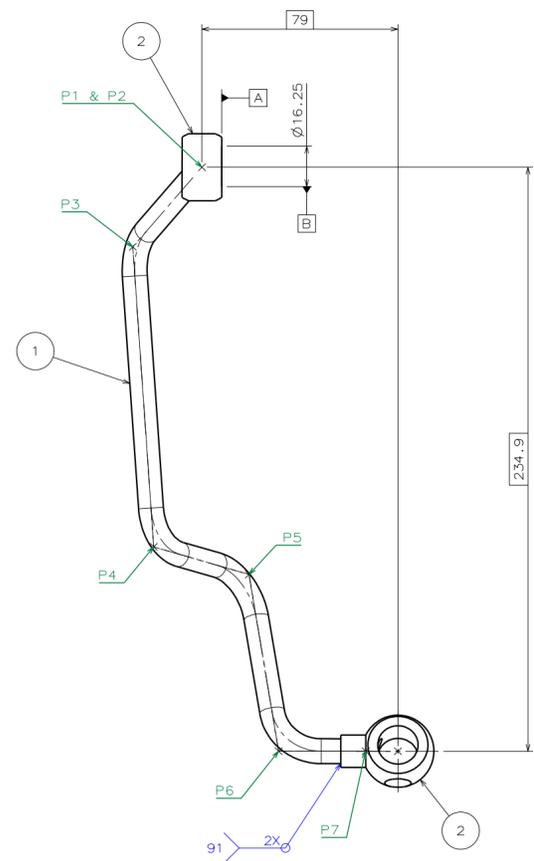
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SCCLMDSC8BHA
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SCCLMDSU1BHA
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SCCLMDSU3BHA
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SCCLMDSU5BHA
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SCCLMDSU7BHA
SCCLMDSU8BHA
SCCLMDSU9BHA
SCCLMDSUXBHA



CARS

Annexe C to
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VVT OIL PIPE ASSEMBLY



LOCATION POINTS			
	X	Y	Z
L1	0.0	0.0	0.0
L2	0.0	0.0	8.0
L3	0.0	0.0	-8.0
L4	121.9	234.9	-79.0
L5	114.3	232.3	-79.0
L6	129.5	237.4	-79.0

ITEM	POINT	X		Y		Z		RADIUS
		TOL		TOL		TOL		
P1	0.0	±3	0.0	±3	0.0	±3	-	
P2	45.0	±3	0.0	±3	0.0	±3	20.0	
P3	90.0	±3	30.0	±3	30.0	±3	20.0	
P4	90.0	±3	151.0	±3	30.0	±3	20.0	
P5	130.7	±3	164.7	±3	-7.5	±3	20.0	
P6	106.8	±3	236.5	±3	-14.5	±3	20.0	
P7	106.8	±3	238.9	±3	-49.5	±3	-	

- THE MASTER 3D MODEL FOR THIS PART IS A132E0102 REV A1
- ALL COMPONENTS TO COMPLY TO EUROPEAN END OF LIFE VEHICLE BASE DIRECTIVE 2000/53/EC AS AMENDED BY 2011/37/EU AT TIME OF MANUFACTURE.
 - KEY CHARACTERISTICS AND BATCH CONTROL GRADE ARE DEFINED IN LOTUS PROCEDURE A3-A-8.17. THIS COMPONENT IS SUBJECT TO GRADE "C" BATCH CONTROL.
 - PART TO BE FREE FROM BURRS AND SHARP EDGES DETRIMENTAL TO SATISFACTORY ASSEMBLY, SAFE HANDLING, APPEARANCE, FUNCTION, OR LIKELY TO CAUSE CONCERN.
 - ENSURE ALL PIPES, HOSES, AND FITTINGS ARE FREE FROM ANY DEFECTS OR DAMAGE TO ENABLE LEAK FREE ASSEMBLY AND ARE SUITABLE FOR USE IN AUTOMOTIVE ENGINE OIL SYSTEMS.
 - PIPE ENDS SHALL BE PROTECTED FROM DIRT/DUST INGRESS.
 - NO DEFECTS ON SEALING SURFACES DETRIMENTAL TO SEALING PERFORMANCE.
 - ASSEMBLY TO WITHSTAND NORMAL OPERATING TEMPERATURES OF UP TO 135°C AND MAXIMUM OPERATING TEMPERATURE OF 150°C.
 - WELDING SYMBOLS IN ACCORDANCE WITH BS EN 22553.
 - WELDING PROCESS DESIGNATION IN ACCORDANCE WITH BS EN ISO 4063:2010.
 - THREE ASSEMBLIES IN EVERY ONE HUNDRED TO BE SUBJECTED TO A LEAKAGE TEST AS DETAILED IN BS EN1402:2009 PART 8.4 - BASED ON AN ASSUMED BURST PRESSURE OF 40 BAR. (BURST PRESSURE IS EQUIVALENT TO 4 TIMES WORKING PRESSURE, WHICH IS 10 BAR.) ENTIRE CHECK TO BE CARRIED OUT IN CHECKING FIXTURE.
 - ALL BRAZED JOINTS TO BE 100% TESTED BY PRESSURE DECAY - 40 BAR HIGH PURITY NITROGEN UNDER WATER LEAK TEST.
 - APPLIED COATING MUST BE CAPABLE OF PREVENTING BASE METAL CORROSION FOR A MINIMUM OF 480 HOURS WHEN SUBJECTED TO A NEUTRAL SALT SPRAY TEST IN ACCORDANCE WITH BS EN ISO9227:2006.

KEY CHARACTERISTIC
ANY ITEMS MARKED WITH THESE SYMBOLS ARE KEY CHARACTERISTICS AS PER LOTUS PROCEDURE A3-A-8.17

BATCH CONTROL
ITEMS MARKED WITH SYMBOL ARE SUBJECT TO BATCH CONTROL.

ITEM	PART NUMBER	DESCRIPTION	MATERIAL OR SUPPLIERS PART NUMBER	QTY
2		FITTING-OIL FEED PIPE VVT	M16 BANJO - PROPRIETARY PART	2
1		PIPE-OIL FEED VVT	STEEL TO BS EN 10305-4 E235+N	1

PARTS LIST TABLE A132E0102

DATE	ISS	ZONE	DESCRIPTION OF CHANGE	DR No.	CHK No.	APP No.	FLAC	STD	APP
30.JUN.11	A1	-	PRODUCTION RELEASE	610/0006	SHO	SHD	REB	IF	IF

LOTUS ENGINEERING
HETHEL, NORWICH, NORFOLK, ENGLAND

GROUP LOTUS PLC

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DRAUGHTING STANDARDS TO BS8888 ALL DIMENSIONS ARE IN MILLIMETRES

MATERIAL: SEE COMPONENT PARTS

FINISH: SEE COMPONENT PARTS

WEIGHT: 0.179 Kg

SHEET SIZE: A0

SCALE: 1:1

PART DESCRIPTION: ASSY-PIPE OIL FEED VVT

ASSY NUMBER: A132E0102-A1

SHEET 1 of 1