

June 21, 1939

DEVELOPMENT COSTS XO-1130-1 ENGINE

Contract or Purchase Order	Subject	Amount	Date
Contract 6322	Vandycos of Type O-1130-1 aero. engine, etc.	\$10,000.00	2/13/39
Contract 6834, P.O. 33-1660	Misc. parts & assys. of Model O-1130-1 aero. eng. Adapt one Continental liquid-cooled single cyl. to single cyl. test eng. furnished by the Government, reports.	54,000.00	6/29/34
" 33-1660	Change Order 1604, Serial #1 - alterations.	9,850.00	10/6/32
" 33-3804	2 ea. high performance cyls., 6 ea. pistons, 1 set reports.	2,223.50	2/17/33
" 33-3812	Services for 25-hr. develop. test & report of test.	22,229.02	2/17/33
" 34-32	Services for repairing Govt. owned single cyl. test engine.	2,000.00	2/17/33
" 35-614	2 ea. "Hyper #1" cyl. assys., 2 ea. blueprints of water jackets.	602.00	7/10/33
" 35-612	1 ea. connecting rod, "Hyper #1".	1,900.00	8/29/34
" 35-3972	1 ea. vandycos of prop. shaft, reducing gear housing, etc., of XO-1130-1 engine.	133.69	9/8/34
" 36-633	Parts, vandycos & reports applicable to XO-1130-1 engine on Contracts 6322 and 6834.	225.00	1/25/35
Contract 8131	Engine run-in, calibration & endurance tests of Model O-1130-1 aero. eng., reports thereof & data.	8,500.00	8/11/35
P.O. 36-1088	2 ea. eng. mount plate for dyna. tests XO-1130-1 engine.	22,315.00	1/29/36
" 36-2160	1 ea. engine model, wood, O-1130-1 engine.	856.00	9/11/35
" 36-2896	Parts for completion of single cyl. tests prepara- tory to fabrication of XO-1130-1 engine.	3,509.50	11/13/35
" 37-1091	Parts for XO-1130 engine.	1,110.15	1/2/36
Contract 9060	Spare parts for Model O-1130-1 aero. engine.	3,338.39	9/10/36
P.O. 37-3485	1 ea. crankcase assembly.	25,925.05	9/21/36
" 37-3057	Parts installed in O-1130-1 engine on Con. 8131.	4,183.65	2/1/37
" 37-1358	Replacement parts for O-1130-1 eng. during 50-hr. develop. test up to & including 2/15/37.	2,157.13	1/5/37
" 37-4716	3 ea. pistons.	3,860.06	1/2/37
" 38-869	Replacement parts used in development test of XO-1130-1 engine.	205.50	1-28-37
" 38-1151	Replacement parts used in conducting 50-hr. de- velopment test, Con. 9060, up to & including 5-31-37.	6,592.10	9/8/37
" 38-2764	Replacements used in develop. test, Con. 8131, up to 11/30/37.	6,196.98	10/12/37
Contract 10811	Spare parts for Model O-1130-1 aero. engine.	2,251.12	12/30/37
P.O. 38-3619	Replacement parts used in develop. test XO-1130-1 eng., Con. 8131, up to 1/15/38.	11,609.64	2/1/38
" 39-1707	Replacement parts used in develop. test of XO-1130-1 eng., Con. 8131, up to 8/15/38.	1,861.75	2/21/38
" 39-2677	Replacement parts, develop. test, Con. 8131, up to 10/31/38.	6,103.35	10/25/38
		6,225.29	12/16/38

Continental XO-1130-1 Engine.

<u>Contract or Purchase Order</u>	<u>Subject</u>	<u>Amount</u>	<u>Date</u>
A.F.P. 115082	Awaiting funds.	\$11,003.10	
A.F.P. (now in preparation)	Awaiting funds.	<u>9,153.11</u>	
		\$20,156.21	
A.F.P. (to be prepared on spares now on hand but not paid for).		7,168.10	
A.F.P. (to be prepared on spares now being fabricated).		<u>6,335.50</u>	
		\$13,503.60	
	Total	\$23,660.20	

This leaves a fairly complete inventory of Government-owned spare parts available during the XO-1130-3 run-in and calibration tests and the XO-1130-1 calibration and performance tests now under way. The inventory of these parts is \$21,786.16.

	\$267,507.10	
	<u>13,503.70</u>	
	\$281,010.80	
	<u>21,786.16</u>	
Value Govt.-owned spares	\$259,224.64	
Net cost of XO-1130-1 thru 50-hr. develop. test		
Direct material not covered above	1,228.12	← 1300.48
Direct labor	6,703.15	← 9078.79
Overhead	6,516.23	← 9678.03
Travel	<u>151.00</u>	← 220.90
Total cost of project thru 50-hr. develop. test (except for direct labor & overhead on 6834 to 35-612 inclusive).	\$273,913.37	← 279,502.84

A.F.P. 117995 covers one XO-1130-3 engine at \$71,507.00 (1939 funds). Cont 12741
A.F.P. 116571 covers additional tests on the XO-1130-1 engine, and performance tests on a contractor-owned 2-cylinder test engine at \$35,610.00. Contract covering the XO-1130-3 engine has been signed by Continental. All work and all items have been completed on the XO-1130-1 project through the 50-hour development test.