

Service Report



Report Header Information					
Work Order	0J52737	Dealer Code	E250	Manufacturer	Caterpillar Inc.
Employee ID	1782	Service Date	1/13/2015	Model	3412
Customer	USED PARTS	Customer Equipment Number		Serial Number	8AR01077
SMU	0 Hours	Equipment Location	COMPONENT SHOP ENGINE DYNO		
IN Date		Promise Date		OUT Date	
Instructions					

SIMS / Part Causing Failure										
Segment No	Part Number	Part Name	Qty	SMCS	Desc.Code		Group Number Containing Part	Group Name	Product Inoperable?	CAT Item
					Primary	Secondary				

Repair Background	
Segment No:	10:
Customer Complaint	RECEIVED USED 3412 ENGINE FOR DYNO TESTING. ENGINE IS MOUNTED ON RUN SKID WITH AIR CLEANER ASSEMBLIES AND RADIATOR INSTALLED AND FULL OF COOLANT. ENGINE IS ALSO FULL OF ENGINE OIL. MADE ALL NECESSARY CONNECTIONS TO ENGINE, STARTED AND BROUGHT TO OPERATING TEMPERATURE. RAN DYNO TESTS AND MADE ADJUSTMENTS TO FUEL SETTING AND HIGH AND LOW IDLES TO GET READINGS INTO SPECS. ALL READINGS ARE WITHIN SPECS. REMOVE ENGINE FROM DYNO AND RETURN TO CUSTOMER.
Cause of Failure	
Resultant Damage	
Repair Process Comments	

Customer Signature	Technician Signature
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DYNAMOMETER TEST SHEET

WORK ORDER OT 52737
DATE 01-12-15

CUSTOMER Wood Park MODEL 3412 ind. ARR# 1308413 SERIAL# ---
SERVICE METER: BEGIN --- END --- TEST# CM 4 ENGINE SERIAL # 8AR01077

SPECIFICATIONS

ALTITUDE 8202' FULL LOAD RPM 1800 HIGH IDLE RPM 1980 LOW IDLE RPM 750
FULL LOAD BHP 715 MIN FULL LOAD BHP 693 MAX FULL LOAD BHP 736 SET POINT/ BALANCE RPM 1820
FULL LOAD FUEL SETTING .195" FULL TORQUE SETTING .197" AF RATIO SETTING -.052" FULL LOAD FUEL RATE 35.9
STATIC TIMING 26° TIMING ADVANCE 31.5° @ 2000 MANIFOLD PRESS. 49.5" Hg
FUEL SETTING INFORMATION: 277820

ENGINE RUN IN SCHEDULE

FUEL API 38.3 CORRECTION FACTOR 1.01872 +13 ACTUAL CORRECTED H.P. 7046 FULL LOAD FUEL RATE 37.9
START UP: RPM 605 OIL PRESSURE 70 FUEL PRESSURE 32
ENGINE OIL PRESSURE AT OPERATING TEMPERATURE: FULL LOAD 66 LOW IDLE 37
TIMING CHECK: STATIC No check TIMING ADVANCE ---
WATER PUMP PSI --- AUX. WATER PUMP PSI --- CRANKCASE PSI 0.6"
AIR COMPRESSOR GOVERNED PSI: IN --- OUT ---

TESTED BY: [Signature]

Wagner Equipment Company

18000 East Smith Road
Aurora, CO 80011
Phone: (303) 739-3000
FAX: (303) 739-3284

Owner

USED PARTS,

Contact:

Phone:

Test Device

Vehicle	Engine	Transmission	Driveline
Make	Make CAT	Make	Ratio
Model	Model 3412	Model	Axles
Year	Type DITA	Type	Tire Type
Weight	Serial No 8AR01077		Tire Size
Mileage	Perf. Spec. 2T7820		Tire Tread
VIN			
ID No			

Test Information

Work Order OJ52737	Date 1/12/15	Time 15:09
Dyno Location E250 SPEC	Test Serial No 2208	System ID ENG DYNO
Test Description HP @ FULL LOAD RPM	Cfa Filename SF602WIN	Test Type AUTOSTEP
Test Filename C/N 4	Dyno Operator GREG A 1782	
Data Filename C:\windyn32\SF602\data SF602\DATA2273		

Data-Test Results Page 1

EngSpd	EngPwr	EngTrq	Set Pt	Exh T	Man P	Oil P	CoolOt	CrankP
rpm	Hp	lb-ft	rpm	degF	inHg	psi	degF	inH2O
2025	33	86	1815	468	4.7	76.0	167	0.2
2005	134	352	1815	549	8.1	75.1	169	0.2
1985	213	563	1815	618	11.8	74.4	170	-0.2
1965	334	894	1815	693	18.1	73.3	172	0.3
1940	421	1139	1815	743	23.6	72.3	175	0.4
1915	443	1216	1815	761	25.3	71.7	176	0.4
1900	572	1581	1815	814	34.2	70.4	181	0.5
1880	653	1824	1815	857	40.0	69.2	186	0.6
1860	693	1956	1815	892	43.1	68.0	191	0.6
1845	697	1984	1815	910	43.6	67.3	194	0.6
1820	693	2001	1815	918	43.4	66.8	196	0.6
1800	691	2016	1815	936	43.5	66.0	199	0.6
HIGH IDLE								
2025	14	36	1815	655	6.0	71.7	192	0.2
LOW IDLE								
750	2	11	1815	502	0.1	37.2	176	-0.1

CORRECTED HORSEPOWER - 704

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Contact:

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Vehicle	Engine	Transmission	Driveline
Make	Make CAT	Make	Ratio
Model	Model 3412	Model	Axles
Year	Type DITA	Type	Tire Type
Weight	Serial No 8AR01077		Tire Size
Mileage	Perf. Spec. 2T7820		Tire Tread
VIN			
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Test Filename C/N 4	Dyno Operator GREG A 1782	
Data Filename C:\windyn32\SF602\data SF602\DATA2273		

Data-Test Results Page 2

EngSpd	EngPwr	Fuel V	Fuel M	Fuel P	FuelCT	InletT	DynOut
rpm	Hp	gph	lb/hr	psi	deg F	degF	degF
2025	33	6.9	48	36.2	65.0	89	141
2005	134	11.3	78	34.8	64.9	90	111
1985	213	14.7	102	33.6	64.9	91	116
1965	334	19.8	138	31.6	64.9	94	121
1940	421	23.9	166	30.0	64.9	95	122
1915	443	24.9	173	29.4	64.9	97	123
1900	572	31.2	216	26.7	64.9	100	129
1880	653	35.7	248	24.8	64.9	102	133
1860	693	38.1	264	23.7	64.9	104	134
1845	697	38.3	265	23.6	64.9	106	132
1820	693	38.0	264	23.6	64.9	108	130
1800	691	37.9	263	23.6	64.9	112	129
HIGH IDLE							
2025	14	5.9	41	36.4	65.0	116	106
LOW IDLE							
750	2	1.1	8	29.8	65.1	110	76

CORRECTED HORSEPOWER - 704