



OIL ANALYSIS PROGRAM

935 SUNSHINE ROAD
KANSAS CITY, KS 66115-1122
(800) 332-8055, FAX (913) 281-9885

CUSTOMER NO.: 9000394
UNIT NO.: 60396000377
DESCRIPTION: ENGINE
END USER: DAVID MEIMANN
END USER LOCATION: ANTELOPE, CA 95843-5363

1987 3000 - BLUE
MAKE: MERCEDES BENZ
MODEL: 3000
OIL BRAND: MOBIL
OIL TYPE: DELVAC
SERIAL NO.: WDBE83304HAZ46036
FUEL TYPE: DIESEL

NO. COPIES 1

SAMPLE DATA

LAB# 62768
NORMAL
SAMPLE DATE 05/24/2002
RECEIPT DATE 06/05/2002
TIME ON OIL 10800
TIME ON UNIT 23100

SPECTROCHEMICAL ANALYSIS (ppm)		PHYSICAL PROPERTIES	
IRON	82	FUEL	<1
CHROMIUM	4	VIS @ 40 C	N/A
LEAD	1	VIS @ 100 C	14.92
COPPER	10	WATER (%)	0
TIN	0	SOOT/SOLIDS (%VOL)	N/A
ALUMINUM	6	GLYCOL	ME
NICKEL	0		
SILVER	0		
SILICON	13		
BORON	161		
SODIUM	0		
MAGNESIUM	498		
CALCIUM	2725		
BARIUM	0		
PHOSPHORUS	1418		
ZINC	1463		
MOLYBDENUM	33		
TITANIUM	0		
VANADIUM	0		
POTASSIUM	25		

LAB# 62768 TBN F:500T

ADDITIONAL TESTS

No History to Graph

GRAPHICAL ANALYSIS

Key
A: Abnormal
C: Critical

MOBIL ACCUTRACK

LAB# 62768 ANALYSIS RECOMMENDATIONS

RESULTS OF TEST PERFORMED INDICATE NO CORRECTIVE ACTION REQUIRED. NOTE: OIL CONDITION IS SATISFACTORY FOR CONTINUED USE.

ANALYST: MM

DELVAC-1, 230 km - 231 km

DAVID MEIMANN
4916 EAGLE PEARL COURT
ANTELOPE, CA 95843-5363

PERFORMANCE ANALYSIS COMPANY
 3323 RUDY STREET, KNOXVILLE, TN, 37921
 Phone: (423) 524-3563 FAX: (423) 546-9404

1987 3000 - BLUE

CLIENT
 DAVID WEIMANN
 4916 EAGLE PEAK COURT
 ANTELOPE, CA 95846-5363

DESCRIPTION:
 NUMBER: MERCEDES BENZ 3000
 3EUD967
 COMPONENT: DIESEL ENGINE

EQUIPMENT
 Location:

LUBRICATION
 BRAND: MOBIL 1
 GRADE: 5W40
 VISCOSITY: 0

CURRENT OR MOST RECENT SAMPLE RECEIVED 07/06/2000

OIL CHANGED THIS SAMPLE: Yes

Lab Number	Date Taken	Unit MI/HR	O-11 MI/HR	WEAR METALS IRON ALUM COPPER CHROME	LEAD TIN	CONTAMINATES SODIUM SODIUM	DIRT	ENGINE SOOT LIGHT	FUEL NEG	WATER NEG	SOLIDS NONE	GLYCOL NEG	VISC 130	TBN	TAN	GRADE 5W40	BRAND MOBIL 1
66693Y	06/29/2000	220000	10000	21 3 5 0 0	3 0	5 5	11 6	LIGHT	NEG	NEG	NONE	NEG	130				

COMMENTS

Iron appears to be normal.
 Aluminum appears to be normal.
 Copper appears to be normal.
 Chrome appears to be normal.
 Lead appears to be normal.
 Silicon appears to be normal.
 ENGINE SOOT : LIGHT - Soot Normal
 No water detected.
 Solids: New O11 or no visible metal or dirt detected in this sample.
 No antifreeze detected.
 O-11 sample base number (TBN) not requested.
 O-11 sample acid number (TAN) not requested.

BOUGHT CAR @ 188 KM/H
 CONVERTED TO M-1 @ 158K
 CHANGED EVERY 4K (192/96, etc)

HISTORY WHICH INCLUDES MOST RECENT SAMPLE RECEIVED

Lab Number	Date Taken	Unit MI/HR	O-11 MI/HR	WEAR METALS IRON ALUM COPPER CHROME	LEAD TIN	CONTAMINATES SODIUM SODIUM	DIRT	ENGINE SOOT LIGHT	FUEL NEG	WATER NEG	SOLIDS NONE	GLYCOL NEG	VISC 130	TBN	TAN	GRADE 5W40	BRAND MOBIL 1
66693Y	06/29/2000	220000	10000	21 3 5 0 0	3 0	5 5	11 6	LIGHT	NEG	NEG	NONE	NEG	130				
48722Y	02/20/1999	203500	3500	6 0 4 0 0	0 0	5 5	11 6	LIGHT	NEG	NEG	NONE	NEG	133				

MOBIL-1 15W-50, 196 km/h → 200 km/h (NOT TESTED)
 MOBIL-1 15W-50, 200 km/h → 203.5 km/h (LAB 48722Y)
 MOBIL-1 15W-50, 203.5 km/h → 210 km/h (NOT TESTED)
 DELVAC-1 5W-40, 210 km/h → 220 km/h (LAB 66693Y)

Because lubricant analyses are performed using samples and information supplied by others and because recommendations based on these analyses are carried out by others, all services of Associated Laboratories Analysts program are performed without warranty or liability of any kind beyond the amount actually paid for these analyses.