

AVIATION LABORATORIES



S.O.A.P.
INFORMATION FORM

WHITE COPY - LABORATORY • CANARY COPY - CUSTOMER

1. CUSTOMER INFORMATION — <u>MUST</u> Be Completely Filled Out for Proper Processing		TAIL NUMBER <u>N 368MD</u>																																										
<input type="checkbox"/> New Owner <input type="checkbox"/> New Address 1. COMPANY <u>MC RAIL ED-WES INC</u> ADDRESS <u>1450 SALLY RIDE DR</u> CITY <u>CONCORD</u> ST <u>CA</u> ZIP <u>94520</u> ATTENTION <u>ARNOLD PETERSON</u> FOR IMMEDIATE NOTIFICATION: CONTACT TELEPHONE (<u>510</u>) <u>682-7911</u> TELEX _____ FAX # (<u>510</u>) <u>682-5328</u>	2. ENGINE MAKE/MODEL <u>731-3-1G</u> POSITION <u>214</u> HOURS SINCE <input type="checkbox"/> new <input type="checkbox"/> overhaul <u>2316.6</u> HOURS SINCE LAST SAMPLE _____ HOURS SINCE LAST OIL CHANGE _____ HOURS ON THIS FILTER _____ OIL CONSUMPTION SINCE LAST SAMPLE _____ QTS. OIL IN USE: BRAND _____ TYPE _____	SERIAL NUMBER <u>P 76 727 C</u>																																										
3. REASON FOR SAMPLE <input checked="" type="checkbox"/> - NORMAL <input type="checkbox"/> - SPECIAL LAB REQUEST <input type="checkbox"/> - SPECIAL CUSTOMER REQUEST	4. AIRCRAFT TYPE <u>1124</u> S/N <u>368</u> TIME ON AIRCRAFT <u>5462</u>	5. DATE SAMPLE TAKEN <u>6</u> / <u>25</u> / <u>94</u> <div style="display: flex; justify-content: space-around; font-size: small;"> Mo. Day Year </div>																																										
6. MAINTENANCE PERFORMED SINCE LAST SAMPLE <u>LOWER ENGINE - REMOVED FROM</u> <u>WESTWIND 368</u>																																												
7. OPERATIONAL PROBLEMS SINCE LAST SAMPLE _____																																												
8. IS THIS ENGINE ON THE MAINTENANCE SERVICE PLAN? <input checked="" type="checkbox"/> YES MSP CONTRACT NO. <u>3108C</u> EXPIRATION DATE _____ / _____ / _____ <div style="display: flex; justify-content: space-around; font-size: small;"> Mo. Day Year </div> <input type="checkbox"/> NO																																												
FOR LABORATORY USE ONLY																																												
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FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN																																		
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____																																		
ST ST	CB ST	AL ST	M50	COPR	SILV	MAG	ALUM	GRIT	MISC																																			
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____																																			

HOUSTON

Administrative Offices
Aviation Laboratories, Inc.
 5401 Mitchelldale, Suite B6
 Houston, Texas 77092
 (713) 864-6677 • Fax (713) 864-6990

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 (504) 469-6751 • Fax (504) 469-6886

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Laboratory Facility
Aviation Laboratories, Inc.
 12911 Budlong Avenue
 Gardena, CA 90247
 (310) 217-9369 • Fax (310) 217-0637

AVIATION LABORATORIES

MSP

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<input type="checkbox"/> New Owner <input type="checkbox"/> New Address 1. COMPANY <u>ED-WES INC</u> ADDRESS <u>1450 SALLY RIDE DR</u> CITY <u>CONCORD</u> ST. <u>CA</u> ZIP <u>94520</u> ATTENTION <u>ARNOLA PETERSON</u> FOR IMMEDIATE NOTIFICATION: CONTACT <u>SAME</u> TELEPHONE (<u>510</u>) <u>682-7911</u> TELEX _____	2. ENGINE SERIAL NUMBER <u>P-77488</u> MAKE/MODEL <u>TFE 731-3</u> POSITION <u>RT</u> HOURS SINCE <input checked="" type="checkbox"/> new <input type="checkbox"/> overhaul <u>5119</u> HOURS SINCE LAST SAMPLE <u>109</u> <u>149</u> HOURS SINCE LAST OIL CHANGE <u>896</u> HOURS ON THIS FILTER <u>107</u> <u>149</u> OIL CONSUMPTION SINCE LAST SAMPLE _____ QTS. OIL IN USE: BRAND <u>MOBIL</u> TYPE <u>II</u>
3. REASON FOR SAMPLE <input checked="" type="checkbox"/> - NORMAL <input type="checkbox"/> - SPECIAL LAB REQUEST <input type="checkbox"/> - SPECIAL CUSTOMER REQUEST	4. AIRCRAFT TYPE <u>1124</u> S/N <u>368</u> TIME ON AIRCRAFT <u>5170</u>
	5. DATE SAMPLE TAKEN <u>10</u> <u>1</u> <u>24</u> <u>1992</u> Mo. Day Year

6. MAINTENANCE PERFORMED SINCE LAST SAMPLE _____

7. OPERATIONAL PROBLEMS SINCE LAST SAMPLE _____

8. IS THIS ENGINE ON THE MAINTENANCE SERVICE PLAN?

YES MSP CONTRACT NO. 3108C EXPIRATION DATE 1 13 1993
 NO Mo. Day Year

FOR LABORATORY USE ONLY

FLTR WT _____											
WEAR METAL ANALYSIS IN PARTS PER MILLION											
FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN	
FILTER CONTENT ANALYSIS											
	ST ST	CB ST	AL ST	M50	COPR	SILV	MAG	ALUM	GRIT	MISC	
AMOUNT:	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
TYPE:	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
FORM:	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
LAB COMMENT:	_____										
RECOMMEND:	_____										
CSE:	_____										
REASON:	_____										
RESMPL HRS:	_____										
SVC CTR:	_____										

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12911 Budlong Avenue

Gardena, CA 90247

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1. CUSTOMER INFORMATION — MUST Be Completely Filled Out for Proper Processing

New Owner New Address
 1. COMPANY ED-WES INC.
 ADDRESS 1450 SALLY RIDE DR
 CITY CONCORD ST. CA ZIP 94520
 ATTENTION ARNOLD PETERSON
 FOR IMMEDIATE NOTIFICATION:
 CONTACT SAME
 TELEPHONE (510) 682-7911 TELEX _____

2. ENGINE SERIAL NUMBER P-77482
 MAKE/MODEL TFE 731-3
 POSITION LEFT
 HOURS SINCE new overhaul 4904
 HOURS SINCE LAST SAMPLE 149
 HOURS SINCE LAST OIL CHANGE 291
 HOURS ON THIS FILTER 102 149
 OIL CONSUMPTION SINCE LAST SAMPLE _____ QTS.
 OIL IN USE: BRAND MOBIL TYPE II

3. REASON FOR SAMPLE
 - NORMAL
 - SPECIAL LAB REQUEST
 - SPECIAL CUSTOMER REQUEST

4. AIRCRAFT TYPE 1124 S/N 368
 TIME ON AIRCRAFT 5170

5. DATE SAMPLE TAKEN 10 / 24 / 1992
 Mo. Day Year

6. MAINTENANCE PERFORMED SINCE LAST SAMPLE Ø

7. OPERATIONAL PROBLEMS SINCE LAST SAMPLE Ø

8. IS THIS ENGINE ON THE MAINTENANCE SERVICE PLAN?
 YES MSP CONTRACT NO. 3108C EXPIRATION DATE 1 / 13 / 1993
 NO Mo. Day Year

FOR LABORATORY USE ONLY

FLTR WT. _____

WEAR METAL ANALYSIS IN PARTS PER MILLION										
FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
FILTER CONTENT ANALYSIS										
ST ST	CB ST	AL ST	M50	COPR	SILV	MAG	ALUM	GRIT	MISC	
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
AMOUNT: _____										
TYPE: _____										
FORM: _____										
LAB COMMENT: _____										
RECOMMEND: _____ REASON: _____ RESMPL HRS: _____										
CSE: _____ SVC CTR: _____										

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12911 BUD LONG
GARDENA, CALIFORNIA 90247
(310) 217-9369

S. O. A. P. RESULTS

DATE: 05-12-1993

APRI AVIATION
ATTN: ARNOLD PETERSON
1450 SALLY RIDE DR.

CONCORD ,CA 94520

ENGINE S/N: 77488

ENGINE MODEL: TFE731-3-16
AIRCRAFT: WW1124 368
TAIL NUMBER: N368MD

GARRETT SDAP2000 SYSTEM

** CURRENT RECOMMENDATION ** IMPORTANT!! SEND A RESAMPLE AFTER 25 HOURS.

SAMPLE DATE: 05/06/93	*** FILTER ANALYSIS RESULTS ***											
ANALYSIS DATE: 05/12/93	MATL:	ST ST	CB ST	AL ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC	
SAMPLE NUMBER: 8												
TSN HRS: 5013	AMOUNT:	TRACE							TRACE	MINOR	MAJOR	
TSD HRS:	TYPE:											
OIL HRS: 400	FORM:	FN										
FILTER HRS: 108												
OIL ADDED:	*** OIL ANALYSIS RESULTS ***											
FILTER MGS: 55	FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN	
FLASHPOINT:	0.10	0.10	< 1.00	< 1.00	0.10	0.10						
LAB FINDINGS: MINOR ALUMINUM	;											
LAB COMMENTS: MSP 310B 1-3-94	;											

** PREVIOUS - 1 RECOMMENDATION ** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.

SAMPLE DATE: 10/24/92	*** FILTER ANALYSIS RESULTS ***											
ANALYSIS DATE: 10/28/92	MATL:	ST ST	CB ST	AL ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC	
SAMPLE NUMBER: 2												
TSN HRS: 5119	AMOUNT:	TRACE							TRACE	TRACE	MAJOR	
TSD HRS:	TYPE:											
OIL HRS: 896	FORM:	FN										
FILTER HRS: 149												
OIL ADDED:	*** OIL ANALYSIS RESULTS ***											
FILTER MGS: 49	FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN	
FLASHPOINT:	0.10	0.10	< 1.00	< 1.00	0.10	0.10						
LAB FINDINGS:	;											
LAB COMMENTS: MSP 3108C 1-3-93	;											

** PREVIOUS - 2 RECOMMENDATION ** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.

SAMPLE DATE: 01/23/92	*** FILTER ANALYSIS RESULTS ***											
ANALYSIS DATE: 01/28/92	MATL:	ST ST	CB ST	AL ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC	
SAMPLE NUMBER: 3												
TSN HRS: 4970	AMOUNT:	TRACE							TRACE	TRACE	MAJOR	
TSD HRS:	TYPE:											
OIL HRS: 755	FORM:											
FILTER HRS: 180												
OIL ADDED:	*** OIL ANALYSIS RESULTS ***											
FILTER MGS: 93	FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN	
FLASHPOINT:	0.10	0.10	< 1.00	< 1.00	0.10	0.10						
LAB FINDINGS:	;											
LAB COMMENTS: MSP 0310B 01-03-93	;											

MATL:**Filter Material Codes**

ST ST Stainless steel
CB ST Carbon Steel
AL ST Alloy steel
M50 Bearing alloy
MAGNS Magnesium
ALUM Aluminum

AMOUNT:**Filter Amount Codes**

TRACE 0-10%
MINOR 10-40%
MAJOR 40-100%
Percent of total
filter weight

FORM:**Filter Material
Form Codes**

BF Brass fines
BZ Bronze fines
CK Chunks
CP Corrosion products
FL Flakes
FN Fines
MC Machining chips
OP Oxidized platelets
PL Plating
PT Platelets
SL Slivers
ST Stringers

TYPE:**Filter Material
Type Codes**

BR Black rubber/elastic
CM Carbon seal material
CS Plain carbon steel
CU Copper
DL Moly drylube
FE Iron
FI Fibers
FP Fel-pro C5A
GB Glass beads
HR Hylomar sealant
MG Magnesium
MO Moly (Metal spray)
MS 400 Stainless steel
NI Nickel
OX Iron oxide
PH 17-4 PH Iron
PC Paint chips
SG Silicone grease
SI Silicon
SS 300 Stainless steel
TS BRNG Alloy (M50)
VO Voishan seal material

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5. DATE SAMPLE TAKEN <u>7</u> / <u>30</u> / <u>1993</u> Mo. Day Year																																																									
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AMOUNT:	_____									
TYPE:	_____									
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LAB COMMENT:	_____									
RECOMMEND:	REASON:		RESMPL HRS: _____							
CSE:	_____		SVC CTR: _____							

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(310) 217-9369

S. O. A. P. RESULTS

DATE: 08-01-1993

APRI AVIATION
ATTN: ARNOLD PETERSON
1450 SALLY RIDE DR.

CONCORD ,CA 94520

ENGINE S/N: 77488

ENGINE MODEL: TFE731-3-16
AIRCRAFT: WW1124 368
TAIL NUMBER: N368MD

GARRETT SOAP 2000 SYSTEM

**** CURRENT RECOMMENDATION **** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.

SAMPLE DATE: 07/30/93		*** FILTER ANALYSIS RESULTS ***														
ANALYSIS DATE: 08/01/93		MATL:	ST	ST	CB	ST	AL	ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC	
SAMPLE NUMBER: 6																
TSN HRS: 5307		AMOUNT:			TRACE			TRACE			TRACE		TRACE		MAJOR	
TSD HRS:		TYPE:														
OIL HRS: 29		FORM:														
FILTER HRS: 29																
OIL ADDED:																
FILTER MGS: 43		*** OIL ANALYSIS RESULTS ***														
FLASHPOINT:		FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN				
		0.10	0.10	< 1.00	< 1.00	0.10	0.10									

LAB FINDINGS: ; ; ; ;
LAB COMMENTS: MSP 3108

**** PREVIOUS - 1 RECOMMENDATION **** IMPORTANT!! SEND A RESAMPLE AFTER 25 HOURS.

SAMPLE DATE: 05/06/93		*** FILTER ANALYSIS RESULTS ***														
ANALYSIS DATE: 05/12/93		MATL:	ST	ST	CB	ST	AL	ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC	
SAMPLE NUMBER: 8																
TSN HRS: 5013		AMOUNT:			TRACE						TRACE		MINOR		MAJOR	
TSD HRS:		TYPE:														
OIL HRS: 400		FORM:														
FILTER HRS: 108																
OIL ADDED:																
FILTER MGS: 55		*** OIL ANALYSIS RESULTS ***														
FLASHPOINT:		FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN				
		0.10	0.10	< 1.00	< 1.00	0.10	0.10									

LAB FINDINGS: MINOR ALUMINUM ; ; ; ;
LAB COMMENTS: MSP 3108 1-3-94

**** PREVIOUS - 2 RECOMMENDATION **** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.

SAMPLE DATE: 10/24/92		*** FILTER ANALYSIS RESULTS ***														
ANALYSIS DATE: 10/28/92		MATL:	ST	ST	CB	ST	AL	ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC	
SAMPLE NUMBER: 2																
TSN HRS: 5119		AMOUNT:			TRACE						TRACE		TRACE		MAJOR	
TSD HRS:		TYPE:														
OIL HRS: 896		FORM:														
FILTER HRS: 149																
OIL ADDED:																
FILTER MGS: 49		*** OIL ANALYSIS RESULTS ***														
FLASHPOINT:		FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN				
		0.10	0.10	< 1.00	< 1.00	0.10	0.10									

LAB FINDINGS: ; ; ; ;
LAB COMMENTS: MSP 3108C 1-3-93

MATL:
Filter Material Codes

ST ST	Stainless steel
CB ST	Carbon Steel
AL ST	Alloy steel
M50	Bearing alloy
MAGNS	Magnesium
ALUM	Aluminum

AMOUNT:
Filter Amount Codes

TRACE	0-10%
MINOR	10-40%
MAJOR	40-100%

Percent of total filter weight

FORM:
Filter Material
Form Codes

BF	Brass fines
BZ	Bronze fines
CK	Chunks
CP	Corrosion products
FL	Flakes
FN	Fines
MC	Machining chips
OP	Oxidized platelets
PL	Plating
PT	Platelets
SL	Slivers
ST	Stringers

TYPE:
Filter Material Type Codes

BR	Black rubber / elastic
CM	Carbon seal material
CS	Plain carbon steel
CU	Copper
DL	Moly drylube
FE	Iron
FI	Fibers
FP	Fel-pro C5A
GB	Glass beads
HR	Hylomar sealant
MG	Magnesium
MO	Moly (Metal spray)
MS	400 Stainless steel
NI	Nickel
OX	Iron oxide
PH	17 - 4 PH Iron
PC	Paint chips
SG	Silicone grease
SI	Silicon
SS	300 Stainless steel
TS	BRNG Alloy
VO	Voishan seal material

OIL CODES

FE	Iron
CU	Copper
Ni	Nickel
CR	Chromium
AG	Silver
Ti	Titanium
Si	Silicon
MG	Magnesium
AL	Aluminum
PB	Lead
BE	Beryllium
TAN	Total Acid Number

AVIATION LABORATORIES

MAILED
8-2

12911 BUD LONG
GARDENA, CALIFORNIA 90247
(310) 217-9369

S. O. A. P. RESULTS

DATE: 08-01-1993

ED-WES/ MCBAIL CO.
ATTN: ARNOLD PETERSON
1450 SALLY RIDE DR.

CONCORD ,CA 94520
USA

ENGINE S/N: 77482

ENGINE MODEL: TFE731-3-16
AIRCRAFT: 1124 368
TAIL NUMBER: N368MD

GARRETT SOAP 2000 SYSTEM

**** CURRENT RECOMMENDATION **** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.

SAMPLE DATE: 07/30/93	*** FILTER ANALYSIS RESULTS ***													
ANALYSIS DATE: 08/01/93	MATL:	ST	ST	CB	ST	AL	ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC
SAMPLE NUMBER: 4	TRACE													
TSN HRS: 5307	AMOUNT:	TRACE												
TSD HRS:	TYPE:	TRACE												
OIL HRS: 428	FORM:	FN												
FILTER HRS: 137														
OIL ADDED:	*** OIL ANALYSIS RESULTS ***													
FILTER MGS: 58	FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN			
FLASHPOINT:	0.10	0.10	< 1.00	< 1.00	0.10	0.10								

LAB FINDINGS: ; ; ; ;
LAB COMMENTS: MSP 3108

**** PREVIOUS - 1 RECOMMENDATION **** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.

SAMPLE DATE: 10/24/92	*** FILTER ANALYSIS RESULTS ***													
ANALYSIS DATE: 10/28/92	MATL:	ST	ST	CB	ST	AL	ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC
SAMPLE NUMBER: 1	TRACE													
TSN HRS: 4904	AMOUNT:	TRACE												
TSD HRS:	TYPE:	TRACE												
OIL HRS: 291	FORM:	TRACE												
FILTER HRS: 149														
OIL ADDED:	*** OIL ANALYSIS RESULTS ***													
FILTER MGS: 82	FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN			
FLASHPOINT:	0.10	0.10	< 1.00	< 1.00	0.10	0.10								

LAB FINDINGS: ; ; ; ;
LAB COMMENTS: MSP 3108C 1-3-93

**** PREVIOUS - 2 RECOMMENDATION **** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.

SAMPLE DATE: 01/23/92	*** FILTER ANALYSIS RESULTS ***													
ANALYSIS DATE: 01/28/92	MATL:	ST	ST	CB	ST	AL	ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC
SAMPLE NUMBER: 4	TRACE													
TSN HRS: 4755	AMOUNT:	TRACE												
TSD HRS:	TYPE:	TRACE												
OIL HRS: 783	FORM:	TRACE												
FILTER HRS: 150														
OIL ADDED:	*** OIL ANALYSIS RESULTS ***													
FILTER MGS: 89	FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN			
FLASHPOINT:	0.10	0.10	< 1.00	< 1.00	0.10	0.10								

LAB FINDINGS: ; ; ; ;
LAB COMMENTS: MSP 03108

MATL:
Filter Material Codes

ST ST	Stainless steel
CB ST	Carbon Steel
AL ST	Alloy steel
M50	Bearing alloy
MAGNS	Magnesium
ALUM	Aluminum

AMOUNT:
Filter Amount Codes

TRACE	0-10%
MINOR	10-40%
MAJOR	40-100%

Percent of total filter weight

FORM:
Filter Material
Form Codes

BF	Brass fines
BZ	Bronze fines
CK	Chunks
CP	Corrosion products
FL	Flakes
FN	Fines
MC	Machining chips
OP	Oxidized platelets
PL	Plating
PT	Platelets
SL	Slivers
ST	Stringers

OIL CODES

FE	Iron
CU	Copper
Ni	Nickel
CR	Chromium
AG	Silver
Ti	Titanium
Si	Silicon
MG	Magnesium
AL	Aluminum
PB	Lead
BE	Beryllium
TAN	Total Acid Number

TYPE:
Filter Material Type Codes

BR	Black rubber / elastic
CM	Carbon seal material
CS	Plain carbon steel
CU	Copper
DL	Moly drylube
FE	Iron
FI	Fibers
FP	Fel-pro C5A
GB	Glass beads
HR	Hylomar sealant
MG	Magnesium
MO	Moly (Metal spray)
MS	400 Stainless steel
NI	Nickel
OX	Iron oxide
PH	17 - 4 PH Iron
PC	Paint chips
SG	Silicone grease
SI	Silicon
SS	300 Stainless steel
TS	BRNG Alloy
VO	Voishan seal material

AVIATION LABORATORIES

12911 BUDLONG AVENUE
GARDENA, CA 90247
(213) 217-9369

DATE: 10-29-1992

S. O. A. P. RESULTS

ED-WES/ MCBAIL CO.
ATTN: ARNOLD PETERSON
1450 SALLY RIDE DR.

ENGINE S/N: 77482

CONCORD ,CA 94520
USA

ENGINE MODEL: TFE731-3-16
AIRCRAFT: 1124 368
TAIL NUMBER:

GARRETT SOAP2000 SYSTEM

** CURRENT RECOMMENDATION ** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.															
SAMPLE DATE:	10/24/92	*** FILTER ANALYSIS RESULTS ***													
ANALYSIS DATE:	10/28/92	MATL:	ST	ST	CB	ST	AL	ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC
SAMPLE NUMBER:	1	AMOUNT:	TRACE												
TSN HRS:	4904	TYPE:	TRACE												
TSD HRS:		FORM:	TRACE												
OIL HRS:	291														
FILTER HRS:	149														
OIL ADDED:															
FILTER MGS:	82														
FLASHPOINT:															
												*** OIL ANALYSIS RESULTS ***			
		FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN			
		0.10	0.10	< 1.00	< 1.00	0.10	0.10								
LAB FINDINGS:															
LAB COMMENTS:	MSP 3108C 1-3-93 ; ; ; ;														

** PREVIOUS - 1 RECOMMENDATION ** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.															
SAMPLE DATE:	01/23/92	*** FILTER ANALYSIS RESULTS ***													
ANALYSIS DATE:	01/28/92	MATL:	ST	ST	CB	ST	AL	ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC
SAMPLE NUMBER:	4	AMOUNT:	TRACE												
TSN HRS:	4755	TYPE:	TRACE												
TSD HRS:		FORM:	TRACE												
OIL HRS:	783														
FILTER HRS:	150														
OIL ADDED:															
FILTER MGS:	89														
FLASHPOINT:															
												*** OIL ANALYSIS RESULTS ***			
		FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN			
		0.10	0.10	< 1.00	< 1.00	0.10	0.10								
LAB FINDINGS:															
LAB COMMENTS:	MSP 03108 ; ; ; ;														

** PREVIOUS - 2 RECOMMENDATION ** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.															
SAMPLE DATE:	09/23/91	*** FILTER ANALYSIS RESULTS ***													
ANALYSIS DATE:	09/25/91	MATL:	ST	ST	CB	ST	AL	ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC
SAMPLE NUMBER:	15	AMOUNT:	TRACE												
TSN HRS:		TYPE:	TRACE												
TSD HRS:	28	FORM:	ST												
OIL HRS:	28														
FILTER HRS:	28														
OIL ADDED:															
FILTER MGS:	73														
FLASHPOINT:															
												*** OIL ANALYSIS RESULTS ***			
		FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN			
		0.10	0.10	< 1.00	< 1.00	0.10	0.10								
LAB FINDINGS:															
LAB COMMENTS:	MSP 3108 01-03-93 ; ; ; ;														

MATL:**Filter Material Codes**

ST ST Stainless steel
CB ST Carbon Steel
AL ST Alloy steel
M50 Bearing alloy
MAGNS Magnesium
ALUM Aluminum

AMOUNT:**Filter Amount Codes**

TRACE 0-10%
MINOR 10-40%
MAJOR 40-100%
Percent of total
filter weight

FORM:**Filter Material****Form Codes**

BF Brass fines
BZ Bronze fines
CK Chunks
CP Corrosion products
FL Flakes
FN Fines
MC Machining chips
OP Oxidized platelets
PL Plating
PT Platelets
SL Slivers
ST Stringers

TYPE:**Filter Material
Type Codes**

BR Black rubber/elastic
CM Carbon seal material
CS Plain carbon steel
CU Copper
DL Moly drylube
FE Iron
FI Fibers
FP Fel-pro C5A
GB Glass beads
HR Hylomar sealant
MG Magnesium
MO Moly (Metal spray)
MS 400 Stainless steel
NI Nickel
OX Iron oxide
PH 17-4 PH Iron
PC Paint chips
SG Silicone grease
SI Silicon
SS 300 Stainless steel
TS BRNG Alloy (M50)
VO Voishan seal material

AVIATION LABORATORIES

12911 BUDLONG AVENUE
GARDENA, CA 90247
(213) 217-9369

S. O. A. P. RESULTS

DATE: 10-29-1992

ED-WES/ MCBAIL CO.
ATTN: ARNOLD PETERSON
1450 SALLY RIDE DR.

CONCORD ,CA 94520
USA

ENGINE S/N: 77488

ENGINE MODEL: TFE731-3-16
AIRCRAFT: WW1124 368
TAIL NUMBER:

GARRETT SOAP 2000 SYSTEM

** CURRENT RECOMMENDATION ** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.											
SAMPLE DATE: 10/24/92	*** FILTER ANALYSIS RESULTS ***										
ANALYSIS DATE: 10/28/92	MATL:	ST ST	CB ST	AL ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC
SAMPLE NUMBER: 2	AMOUNT:	TRACE						TRACE	TRACE	MAJOR	
TSN HRS: 5119	TYPE:										
TSO HRS:	FORM:	FN									
OIL HRS: 896											
FILTER HRS: 149											
OIL ADDED:											
FILTER MGS: 49	*** OIL ANALYSIS RESULTS ***										
FLASHPOINT:	FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN
	0.10	0.10	< 1.00	< 1.00	0.10	0.10					
LAB FINDINGS:											
LAB COMMENTS: MSP 3108C 1-3-93											

** PREVIOUS - 1 RECOMMENDATION ** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.											
SAMPLE DATE: 01/23/92	*** FILTER ANALYSIS RESULTS ***										
ANALYSIS DATE: 01/28/92	MATL:	ST ST	CB ST	AL ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC
SAMPLE NUMBER: 3	AMOUNT:	TRACE						TRACE	TRACE	MAJOR	
TSN HRS: 4970	TYPE:										
TSO HRS:	FORM:										
OIL HRS: 755											
FILTER HRS: 180											
OIL ADDED:											
FILTER MGS: 93	*** OIL ANALYSIS RESULTS ***										
FLASHPOINT:	FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN
	0.10	0.10	< 1.00	< 1.00	0.10	0.10					
LAB FINDINGS:											
LAB COMMENTS: MSP 03108 01-03-93											

** PREVIOUS - 2 RECOMMENDATION ** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.											
SAMPLE DATE: 02/14/91	*** FILTER ANALYSIS RESULTS ***										
ANALYSIS DATE: 02/18/91	MATL:	ST ST	CB ST	AL ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC
SAMPLE NUMBER: 30	AMOUNT:	TRACE						TRACE	TRACE	MAJOR	
TSN HRS: 0	TYPE:										
TSO HRS: 591	FORM:										
OIL HRS: 75											
FILTER HRS: 75											
OIL ADDED:											
FILTER MGS: 57	*** OIL ANALYSIS RESULTS ***										
FLASHPOINT:	FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN
	0.10	0.10	< 1.00	< 1.00	0.10	0.10					
LAB FINDINGS:											
LAB COMMENTS: MSP 3108 1-3-93											

MATL:**Filter Material Codes**

ST ST Stainless steel
 CB ST Carbon Steel
 AL ST Alloy steel
 M50 Bearing alloy
 MAGNS Magnesium
 ALUM Aluminum

AMOUNT:**Filter Amount Codes**

TRACE 1-10%
 MINOR 11-40%
 MAJOR 40-100%
 Percent of total
 filter weight

FORM:**Filter Material****Form Codes**

BF Brass fines
 BZ Bronze fines
 CK Chunks
 CP Corrosion products
 FL Flaker
 FN Fines
 MC Machining chips
 OP Oxidized platelets
 PL Plating
 PT Platelets
 SL Slivers
 ST Stringers

TYPE:**Filter Material
Type Codes**

BR Black rubber/elastic
 CM Carbon seal material
 CS Plain carbon steel
 CU Copper
 DL Moly drylube
 FE Iron
 FI Fibers
 FP Fel-pro C5A
 GB Glass beads
 HR Hylomar sealant
 MG Magnesium
 MO Moly (Metal spray)
 MS 400 Stainless steel
 NI Nickel
 OX Iron oxide
 PH 17-4 PH Iron
 PC Paint chips
 SG Silicone grease
 SI Silicon
 SS 300 Stainless steel
 TS BRNG Alloy (M50)
 VO Voishan seal material

AVIATION LABORATORIES

12911 BUD LONG
GARDENA, CALIFORNIA 90247
(310) 217-9369

S. O. A. P. RESULTS

DATE: 06-24-1994

McBAIL CO.
ATTN: ARNOLD PETERSON
1450 SALLY RIDE DRIVE

CONCORD ,CA 94520
USA

ENGINE S/N: 76727

ENGINE MODEL: TFE731-3-1E
AIRCRAFT: 1124 368
TAIL NUMBER:

GARRETT SOAP2000 SYSTEM

** CURRENT RECOMMENDATION ** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.

SAMPLE DATE: 06/17/94		*** FILTER ANALYSIS RESULTS ***													
ANALYSIS DATE: 06/23/94		MATL:	ST	ST	CB	ST	AL	ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC
SAMPLE NUMBER: 11		AMOUNT: TRACE													
TSN HRS: 2313		TRACE													
TSO HRS:		TYPE:													
OIL HRS: 47		FORM: FN CK													
FILTER HRS: 47															
OIL ADDED:		*** OIL ANALYSIS RESULTS ***													
FILTER MGS: 54		FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN			
FLASHPOINT:		0.10	0.10	< 1.00	< 1.00	0.10	0.10								
LAB FINDINGS:		;													
LAB COMMENTS: MSP 3108C															

** PREVIOUS - 1 RECOMMENDATION ** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.

SAMPLE DATE: 04/14/90		*** FILTER ANALYSIS RESULTS ***													
ANALYSIS DATE: 04/17/90		MATL:	ST	ST	CB	ST	AL	ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC
SAMPLE NUMBER: 32		AMOUNT: TRACE													
TSN HRS: 1327		TRACE													
TSO HRS: 0		TYPE:													
OIL HRS: 18		FORM:													
FILTER HRS: 18															
OIL ADDED: 0.00		*** OIL ANALYSIS RESULTS ***													
FILTER MGS: 18		FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN			
FLASHPOINT: 0		0.50	0.30	< 1.00	< 1.00	0.10	0.10	0.00	0.00	0.00	0.00	0.00			
LAB FINDINGS:		;													
LAB COMMENTS: RENTAL PHX KIT															

MATL:
Filter Material Codes

ST ST	Stainless steel
CB ST	Carbon Steel
AL ST	Alloy steel
M50	Bearing alloy
MAGNS	Magnesium
ALUM	Aluminum

AMOUNT:
Filter Amount Codes

TRACE	0-10%
MINOR	10-40%
MAJOR	40-100%

Percent of total filter weight

FORM:
Filter Material
Form Codes

BF	Brass fines
BZ	Bronze fines
CK	Chunks
CP	Corrosion products
FL	Flakes
FN	Fines
MC	Machining chips
OP	Oxidized platelets
PL	Plating
PT	Platelets
SL	Slivers
ST	Stringers

OIL CODES

FE	Iron
CU	Copper
Ni	Nickel
CR	Chromium
AG	Silver
Ti	Titanium
Si	Silicon
MG	Magnesium
AL	Aluminum
PB	Lead
BE	Beryllium
TAN	Total Acid Number

TYPE:
Filter Material Type Codes

BR	Black rubber / elastic
CM	Carbon seal material
CS	Plain carbon steel
CU	Copper
DL	Moly drylube
FE	Iron
FI	Fibers
FP	Fel-pro C5A
GB	Glass beads
HR	Hylomar sealant
MG	Magnesium
MO	Moly (Metal spray)
MS	400 Stainless steel
NI	Nickel
OX	Iron oxide
PH	17 - 4 PH Iron
PC	Paint chips
SG	Silicone grease
SI	Silicon
SS	300 Stainless steel
TS	BRNG Alloy
VO	Voishan seal material

AVIATION LABORATORIES

12911 BUD LONG
GARDENA, CALIFORNIA 90247
(310) 217-9369

S. O. A. P. RESULTS

DATE: 07-01-1994

McBAIL CO.
ATTN: ARNOLD PETERSON
1450 SALLY RIDE DRIVE

ENGINE S/N: 76727

ENGINE MODEL: TFE731-3-1E
AIRCRAFT: 1124 368
TAIL NUMBER: N368MD

CONCORD ,CA 94520
USA

GARRETT SOAP2000 SYSTEM

**** CURRENT RECOMMENDATION **** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.

SAMPLE DATE: 06/25/94	*** FILTER ANALYSIS RESULTS ***													
ANALYSIS DATE: 07/01/94	MATL:	ST	ST	CB	ST	AL	ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC
SAMPLE NUMBER: 7														
TSN HRS: 2317	AMOUNT:	TRACE												
TSO HRS:	TYPE:													
OIL HRS:	FORM:	FL												
FILTER HRS:	*** OIL ANALYSIS RESULTS ***													
OIL ADDED:	FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN			
FILTER MGS: 37	0.10	0.10	< 1.00	< 1.00	0.10	0.10								
FLASHPOINT:														
LAB FINDINGS:	;													
LAB COMMENTS: MSP 3108														

**** PREVIOUS - 1 RECOMMENDATION **** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.

SAMPLE DATE: 06/17/94	*** FILTER ANALYSIS RESULTS ***													
ANALYSIS DATE: 06/23/94	MATL:	ST	ST	CB	ST	AL	ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC
SAMPLE NUMBER: 11														
TSN HRS: 2313	AMOUNT:	TRACE												
TSO HRS:	TYPE:													
OIL HRS: 47	FORM:	FN CK												
FILTER HRS: 47	*** OIL ANALYSIS RESULTS ***													
OIL ADDED:	FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN			
FILTER MGS: 54	0.10	0.10	< 1.00	< 1.00	0.10	0.10								
FLASHPOINT:														
LAB FINDINGS:	;													
LAB COMMENTS: MSP 3108C														

**** PREVIOUS - 2 RECOMMENDATION **** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.

SAMPLE DATE: 04/14/90	*** FILTER ANALYSIS RESULTS ***													
ANALYSIS DATE: 04/17/90	MATL:	ST	ST	CB	ST	AL	ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC
SAMPLE NUMBER: 32														
TSN HRS: 1327	AMOUNT:	TRACE												
TSO HRS: 0	TYPE:													
OIL HRS: 18	FORM:													
FILTER HRS: 18	*** OIL ANALYSIS RESULTS ***													
OIL ADDED: 0.00	FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN			
FILTER MGS: 18	0.50	0.30	< 1.00	< 1.00	0.10	0.10	0.00	0.00	0.00	0.00	0.00			
FLASHPOINT: 0														
LAB FINDINGS:	;													
LAB COMMENTS: RENTAL PHX KIT														

MATL:
Filter Material Codes

ST ST Stainless steel
CB ST Carbon Steel
AL ST Alloy steel
M50 Bearing alloy
MAGNS Magnesium
ALUM Aluminum

AMOUNT:
Filter Amount Codes

TRACE 0-10%
MINOR 10-40%
MAJOR 40-100%
Percent of total filter weight

FORM:
Filter Material
Form Codes

BF Brass fines
BZ Bronze fines
CK Chunks
CP Corrosion products
FL Flakes
FN Fines
MC Machining chips
OP Oxidized platelets
PL Plating
PT Platelets
SL Slivers
ST Stringers

OIL CODES

FE Iron
CU Copper
Ni Nickel
CR Chromium
AG Silver
Ti Titanium
Si Silicon
MG Magnesium
AL Aluminum
PB Lead
BE Beryllium
TAN Total Acid Number

TYPE:
Filter Material Type Codes

BR Black rubber / elastic
CM Carbon seal material
CS Plain carbon steel
CU Copper
DL Moly drylube
FE Iron
FI Fibers
FP Fel-pro C5A
GB Glass beads
HR Hylomar sealant
MG Magnesium
MO Moly (Metal spray)
MS 400 Stainless steel
NI Nickel
OX Iron oxide
PH 17 - 4 PH Iron
PC Paint chips
SG Silicone grease
SI Silicon
SS 300 Stainless steel
TS BRNG Alloy
VO Voishan seal material

AVIATION LABORATORIES

12911 BUD LONG
GARDENA, CALIFORNIA 90247
(310) 217-9369

S. O. A. P. RESULTS

DATE: 06-24-1994

McBAIL CO.
ATTN: ARNOLD PETERSON
1450 SALLY RIDE DRIVE

CONCORD ,CA 94520
USA

ENGINE S/N: 77488

ENGINE MODEL: TFE731-3-16
AIRCRAFT: WW1124 368
TAIL NUMBER:

GARRETT SOAP 2000 SYSTEM

** CURRENT RECOMMENDATION ** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.

SAMPLE DATE: 06/17/94		*** FILTER ANALYSIS RESULTS ***													
ANALYSIS DATE: 06/23/94		MATL:	ST	ST	CB	ST	AL	ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC
SAMPLE NUMBER: 12															
TSN HRS: 5408		AMOUNT:	TRACE				TRACE				TRACE	TRACE	MAJOR	TRACE	
TSO HRS:		TYPE:													
OIL HRS: 220		FORM:	FL												
FILTER HRS: 140															
OIL ADDED:															
FILTER MGS: 30															
FLASHPOINT:															
		*** OIL ANALYSIS RESULTS ***													
		FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN			
		0.10	0.10	< 1.00	< 1.00	0.10	0.10								
LAB FINDINGS:															
LAB COMMENTS: MSP 3108C															

** PREVIOUS - 1 RECOMMENDATION ** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.

SAMPLE DATE: 07/30/93		*** FILTER ANALYSIS RESULTS ***													
ANALYSIS DATE: 08/01/93		MATL:	ST	ST	CB	ST	AL	ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC
SAMPLE NUMBER: 6															
TSN HRS: 5307		AMOUNT:	TRACE				TRACE				TRACE	TRACE	MAJOR		
TSO HRS:		TYPE:													
OIL HRS: 29		FORM:	ST												
FILTER HRS: 29															
OIL ADDED:															
FILTER MGS: 43															
FLASHPOINT:															
		*** OIL ANALYSIS RESULTS ***													
		FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN			
		0.10	0.10	< 1.00	< 1.00	0.10	0.10								
LAB FINDINGS:															
LAB COMMENTS: MSP 3108															

** PREVIOUS - 2 RECOMMENDATION ** IMPORTANT!! SEND A RESAMPLE AFTER 25 HOURS.

SAMPLE DATE: 05/06/93		*** FILTER ANALYSIS RESULTS ***													
ANALYSIS DATE: 05/12/93		MATL:	ST	ST	CB	ST	AL	ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC
SAMPLE NUMBER: 8															
TSN HRS: 5013		AMOUNT:	TRACE								TRACE	MINOR	MAJOR		
TSO HRS:		TYPE:													
OIL HRS: 400		FORM:													
FILTER HRS: 108															
OIL ADDED:															
FILTER MGS: 55															
FLASHPOINT:															
		*** OIL ANALYSIS RESULTS ***													
		FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN			
		0.10	0.10	< 1.00	< 1.00	0.10	0.10								
LAB FINDINGS: MINOR ALUMINUM															
LAB COMMENTS: MSP 3108 1-3-94															

MATL:
Filter Material Codes

ST ST	Stainless steel
CB ST	Carbon Steel
AL ST	Alloy steel
MS0	Bearing alloy
MAGNS	Magnesium
ALUM	Aluminum

AMOUNT:
Filter Amount Codes

TRACE	0-10%
MINOR	10-40%
MAJOR	40-100%

Percent of total filter weight

FORM:
Filter Material
Form Codes

BF	Brass fines
BZ	Bronze fines
CK	Chunks
CP	Corrosion products
FL	Flakes
FN	Fines
MC	Machining chips
OP	Oxidized platelets
PL	Plating
PT	Platelets
SL	Slivers
ST	Stringers

TYPE:
Filter Material Type Codes

BR	Black rubber / elastic
CM	Carbon seal material
CS	Plain carbon steel
CU	Copper
DL	Moly drylube
FE	Iron
FI	Fibers
FP	Fel-pro C5A
GB	Glass beads
HR	Hylomar sealant
MG	Magnasium
MO	Moly (Metal spray)
MS	400 Stainless steel
NI	Nickel
OX	Iron oxide
PH	17 - 4 PH Iron
PC	Paint chips
SG	Silicone grease
SI	Silicon
SS	300 Stainless steel
TS	BRNG Alloy
VO	Voishan seal material

OIL CODES

FE	Iron
CU	Copper
Ni	Nickel
CR	Chromium
AG	Silver
Ti	Titanium
Si	Silicon
MG	Magnesium
AL	Aluminum
PB	Lead
BE	Beryllium
TAN	Total Acid Number

AVIATION LABORATORIES

ONG

17

0

LAB FINDINGS
LAB COMMENTS: MSP 31080 1-3-93

AVIATION LABORATORIES



S.O.A.P.
INFORMATION FORM

WHITE COPY - LABORATORY • CANARY COPY - CUSTOMER

1. CUSTOMER INFORMATION — <u>MUST</u> Be Completely Filled Out for Proper Processing		TAIL NUMBER <u>38AD</u>																																																																																																																																																																								
<input type="checkbox"/> New Owner <input checked="" type="checkbox"/> New Address 1. COMPANY <u>APRI AVIATION, INC.</u> ADDRESS <u>1448 S SALLY RIDE DR</u> CITY <u>CONCORD</u> ST <u>CA</u> ZIP <u>94520</u> ATTENTION _____ FOR IMMEDIATE NOTIFICATION: CONTACT _____ TELEPHONE (<u>510</u>) <u>682-7911</u> TELEX _____ FAX # (<u>510</u>) <u>682-5328</u>	2. ENGINE MAKE/MODEL <u>731-3</u> POSITION <u>LEFT</u> HOURS SINCE <input checked="" type="checkbox"/> new <input type="checkbox"/> overhaul <u>5326.2</u> HOURS SINCE LAST SAMPLE _____ HOURS SINCE LAST OIL CHANGE _____ HOURS ON THIS FILTER <u>22</u> OIL CONSUMPTION SINCE LAST SAMPLE <u>0</u> QTS. _____ OIL IN USE: BRAND <u>MOBIL</u> TYPE <u>II</u>																																																																																																																																																																									
3. REASON FOR SAMPLE <input type="checkbox"/> - NORMAL <input checked="" type="checkbox"/> - SPECIAL LAB REQUEST <input type="checkbox"/> - SPECIAL CUSTOMER REQUEST	4. AIRCRAFT TYPE <u>1124</u> S/N <u>368</u> TIME ON AIRCRAFT _____ 5. DATE SAMPLE TAKEN <u>5</u> / <u>31</u> / <u>95</u> <div style="display: flex; justify-content: space-between; font-size: small;"> Mo. Day Year </div>																																																																																																																																																																									
6. MAINTENANCE PERFORMED SINCE LAST SAMPLE _____																																																																																																																																																																										
7. OPERATIONAL PROBLEMS SINCE LAST SAMPLE <u>25 HOUR RESAMPLE</u>																																																																																																																																																																										
8. IS THIS ENGINE ON THE MAINTENANCE SERVICE PLAN? <input checked="" type="checkbox"/> YES MSP CONTRACT NO. <u>3108</u> EXPIRATION DATE ____ / ____ / ____ <input type="checkbox"/> NO Mo. Day Year																																																																																																																																																																										
FOR LABORATORY USE ONLY																																																																																																																																																																										
<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;">FLTR WT _____</td> <td colspan="11"></td> </tr> <tr> <td colspan="12" style="text-align: center;">WEAR METAL ANALYSIS IN PARTS PER MILLION</td> </tr> <tr> <td style="text-align: center;">FE</td> <td style="text-align: center;">CU</td> <td style="text-align: center;">NI</td> <td style="text-align: center;">CR</td> <td style="text-align: center;">AG</td> <td style="text-align: center;">MG</td> <td style="text-align: center;">AL</td> <td style="text-align: center;">PB</td> <td style="text-align: center;">BE</td> <td style="text-align: center;">OTHER</td> <td style="text-align: center;">TAN</td> <td></td> </tr> <tr> <td colspan="12" style="text-align: center;">FILTER CONTENT ANALYSIS</td> </tr> <tr> <td></td> <td style="text-align: center;">ST ST</td> <td style="text-align: center;">CB ST</td> <td style="text-align: center;">AL ST</td> <td style="text-align: center;">M50</td> <td style="text-align: center;">COPR</td> <td style="text-align: center;">SILV</td> <td style="text-align: center;">MAG</td> <td style="text-align: center;">ALUM</td> <td style="text-align: center;">GRIT</td> <td style="text-align: center;">MISC</td> <td></td> </tr> <tr> <td>AMOUNT:</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>TYPE:</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>FORM:</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td colspan="12">LAB COMMENT: _____</td> </tr> <tr> <td colspan="12">RECOMMEND: _____</td> </tr> <tr> <td colspan="12">REASON: _____</td> </tr> <tr> <td colspan="12">RESMPL HRS: _____</td> </tr> <tr> <td colspan="12">CSE: _____</td> </tr> <tr> <td colspan="12">SVC CTR: _____</td> </tr> </table>			FLTR WT _____												WEAR METAL ANALYSIS IN PARTS PER MILLION												FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN		FILTER CONTENT ANALYSIS													ST ST	CB ST	AL ST	M50	COPR	SILV	MAG	ALUM	GRIT	MISC		AMOUNT:	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	TYPE:	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	FORM:	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	LAB COMMENT: _____												RECOMMEND: _____												REASON: _____												RESMPL HRS: _____												CSE: _____												SVC CTR: _____											
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HOUSTON

Administrative Offices
 Aviation Laboratories, Inc.
 5401 Mitchelldale, Suite B6
 Houston, Texas 77092
 (713) 864-6677 • Fax (713) 864-6990

NEW ORLEANS

Laboratory Facility
 Aviation Laboratories, Inc.
 918 Maria Street
 Kenner, LA 70062
 (504) 469-6751 • Fax (504) 469-6886

LOS ANGELES

Laboratory Facility
 Aviation Laboratories, Inc.
 12911 Budlong Avenue
 Gardena, CA 90247
 (310) 217-9369 • Fax (310) 217-0637

AVIATION LABORATORIES

12911 BUD LONG
GARDENA, CALIFORNIA 90247
(310) 217-9369

S. O. A. P. RESULTS

DATE: 05-15-1995

McBAIL CO.
ATTN: ARNOLD PETERSON
1450 SALLY RIDE DRIVE

ENGINE S/N: 77488

CONCORD ,CA 94520
USA

ENGINE MODEL: TFE731-3-1G
AIRCRAFT: WW1124 368
TAIL NUMBER:

GARRETT SOAP2000 SYSTEM

** CURRENT RECOMMENDATION ** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.

SAMPLE DATA		*** FILTER ANALYSIS RESULTS ***										
ANALYSIS DATE:	MATL:	ST ST	CB ST	AL ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC	
05/10/95												
05/15/95												
SAMPLE NUMBER: 13	AMOUNT:	TRACE								TRACE	TRACE	MAJOR
TSN HRS: 5568	TYPE:											
TSD HRS: 0	FORM:	FN										
OIL HRS: 150												
FILTER HRS: 0												
OIL ADDED: 0.00												
FILTER MGS: 40												
FLASHPOINT: 0												
		*** OIL ANALYSIS RESULTS ***										
	FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

LAB FINDINGS: ; ; ; ;
LAB COMMENTS: MSP 3108

** PREVIOUS - 1 RECOMMENDATION ** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.

SAMPLE DATA		*** FILTER ANALYSIS RESULTS ***										
ANALYSIS DATE:	MATL:	ST ST	CB ST	AL ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC	
06/17/94												
06/23/94												
SAMPLE NUMBER: 12	AMOUNT:	TRACE								TRACE	TRACE	MAJOR
TSN HRS: 5408	TYPE:											
TSD HRS:	FORM:	FL										
OIL HRS: 220												
FILTER HRS: 140												
OIL ADDED:												
FILTER MGS: 30												
FLASHPOINT:												
		*** OIL ANALYSIS RESULTS ***										
	FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN	
	0.10	0.10	< 1.00	< 1.00	0.10	0.10						

LAB FINDINGS: ; ; ; ;
LAB COMMENTS: MSP 3108C

** PREVIOUS - 2 RECOMMENDATION ** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.

SAMPLE DATA		*** FILTER ANALYSIS RESULTS ***										
ANALYSIS DATE:	MATL:	ST ST	CB ST	AL ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC	
07/30/93												
08/01/93												
SAMPLE NUMBER: 6	AMOUNT:	TRACE								TRACE	TRACE	MAJOR
TSN HRS: 5307	TYPE:											
TSD HRS:	FORM:	ST										
OIL HRS: 29												
FILTER HRS: 29												
OIL ADDED:												
FILTER MGS: 43												
FLASHPOINT:												
		*** OIL ANALYSIS RESULTS ***										
	FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN	
	0.10	0.10	< 1.00	< 1.00	0.10	0.10						

LAB FINDINGS: ; ; ; ;
LAB COMMENTS: MSP 3108

MATL:
Filter Material Codes

ST	ST	Stainless steel
CB	ST	Carbon Steel
AL	ST	Alloy steel
M50		Bearing alloy
MAGNS		Magnesium
ALUM		Aluminum

AMOUNT:
Filter Amount Codes

TRACE	0-10%
MINOR	10-40%
MAJOR	40-100%

Percent of total filter weight

FORM:
Filter Material
Form Codes

BF	Brass fines
BZ	Bronze fines
CK	Chunks
CP	Corrosion products
FL	Flakes
FN	Fines
MC	Machining chips
OP	Oxidized platelets
PL	Plating
PT	Platelets
SL	Slivers
ST	Stringers

OIL CODES

FE	Iron
CU	Copper
Ni	Nickel
CR	Chromium
AG	Silver
Ti	Titanium
Si	Silicon
MG	Magnesium
AL	Aluminum
PB	Lead
BE	Beryllium
TAN	Total Acid Number

TYPE:
Filter Material Type Codes

BR	Black rubber / elastic
CM	Carbon seal material
CS	Plain carbon steel
CU	Copper
DL	Moly drylube
FE	Iron
FI	Fibers
FP	Fel-pro C5A
GB	Glass beads
HR	Hylomar sealant
MG	Magnesium
MO	Moly (Metal spray)
MS	400 Stainless steel
NI	Nickel
OX	Iron oxide
PH	17 - 4 PH Iron
PC	Paint chips
SG	Silicone grease
SI	Silicon
SS	300 Stainless steel
TS	BRNG Alloy
VO	Voishan seal material

AVIATION LABORATORIES

12911 BUD LONG
GARDENA, CALIFORNIA 90247
(310) 217-9369

S. O. A. P. RESULTS

DATE: 06-02-1995

APRI AVIATION INC.
ATTN: ARNOLD PETERSON
1448 SALLY RIDE DR.

ENGINE S/N: 77482

CONCORD ,CA 94520
USA

ENGINE MODEL: TFE731-3-1G
AIRCRAFT: 1124 368
TAIL NUMBER: N368ND

GARRETT SOAP2000 SYSTEM

**** CURRENT RECOMMENDATION **** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.

SAMPLE DATE: 05/31/95 ANALYSIS DATE: 06/02/95 SAMPLE NUMBER: 3 TSN HRS: 5326 TSO HRS: OIL HRS: FILTER HRS: 22 OIL ADDED: FILTER MGS: 27 FLASHPOINT:	MATL: ST ST	*** FILTER ANALYSIS RESULTS ***						*** RESULTS ***			
		CB ST	AL ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC	
AMOUNT: TRACE							TRACE	TRACE	MAJOR		
TYPE: FORM:											
		*** OIL ANALYSIS RESULTS ***						*** RESULTS ***			
	FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN
	0.10	0.10	< 1.00	< 1.00	0.10	0.10					

LAB FINDINGS: LAST REC'M WAS RESAMPLE- ; ; ;
LAB COMMENTS: MSP 3108

**** PREVIOUS - 1 RECOMMENDATION **** IMPORTANT!! SEND A RESAMPLE AFTER 25 HOURS.

SAMPLE DATE: 05/10/95 ANALYSIS DATE: 05/15/95 SAMPLE NUMBER: 12 TSN HRS: 5303 TSO HRS: 0 OIL HRS: 150 FILTER HRS: 150 OIL ADDED: FILTER MGS: 40 FLASHPOINT: 0	MATL: ST ST	*** FILTER ANALYSIS RESULTS ***						*** RESULTS ***			
		CB ST	AL ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC	
AMOUNT: TRACE							TRACE	TRACE	MAJOR		
TYPE: FORM: PT								FN	CK		
		*** OIL ANALYSIS RESULTS ***						*** RESULTS ***			
	FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

LAB FINDINGS: M50 TOOL STEEL PLATELETS ;CSE-JIM HUBBARD; ;
LAB COMMENTS: MSP 3108 1 MG OF SLIGHTLY OXIDIZED PLATELETS

**** PREVIOUS - 2 RECOMMENDATION **** NORMAL SAMPLE - CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.

SAMPLE DATE: 07/30/93 ANALYSIS DATE: 08/01/93 SAMPLE NUMBER: 4 TSN HRS: 5307 TSO HRS: OIL HRS: 428 FILTER HRS: 137 OIL ADDED: FILTER MGS: 58 FLASHPOINT:	MATL: ST ST	*** FILTER ANALYSIS RESULTS ***						*** RESULTS ***			
		CB ST	AL ST	M50	COPPER	SILVER	MAGNS	ALUM	GRIT	MISC	
AMOUNT: TRACE							TRACE	TRACE	MAJOR		
TYPE: FORM: FN											
		*** OIL ANALYSIS RESULTS ***						*** RESULTS ***			
	FE	CU	NI	CR	AG	MG	AL	PB	BE	OTHER	TAN
	0.10	0.10	< 1.00	< 1.00	0.10	0.10					

LAB FINDINGS: ; ; ;
LAB COMMENTS: MSP 3108

MATL:
Filter Material Codes

ST ST	Stainless steel
CB ST	Carbon Steel
AL ST	Alloy steel
M50	Bearing alloy
MAGNS	Magnesium
ALUM	Aluminum

AMOUNT:
Filter Amount Codes

TRACE	0-10%
MINOR	10-40%
MAJOR	40-100%

Percent of total filter weight

FORM:
Filter Material
Form Codes

BF	Brass fines
BZ	Bronze fines
CK	Chunks
CP	Corrosion products
FL	Flakes
FN	Fines
MC	Machining chips
OP	Oxidized platelets
PL	Plating
PT	Platelets
SL	Slivers
ST	Stringers

TYPE:
Filter Material Type Codes

BR	Black rubber / elastic
CM	Carbon seal material
CS	Plain carbon steel
CU	Copper
DL	Moly drylube
FE	Iron
FI	Fibers
FP	Fel-pro C5A
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MG	Magnesium
MO	Moly (Metal spray)
MS	400 Stainless steel
NI	Nickel
OX	Iron oxide
PH	17 - 4 PH Iron
PC	Paint chips
SG	Silicone grease
SI	Silicon
SS	300 Stainless steel
TS	BRNG Alloy
VO	Voishan seal material

OIL CODES

FE	Iron
CU	Copper
Ni	Nickel
CR	Chromium
AG	Silver
Ti	Titanium
Si	Silicon
MG	Magnesium
AL	Aluminum
PB	Lead
BE	Beryllium
TAN	Total Acid Number