ENGINE LOG BOOK



Service Information

Consult the Continental Motors web site at continentalmotors.aero for engine related news or announcements. Continental Motors Internet Service contains useful information for Continental Motors engine owners, including electronic versions of the most current engine Instructions for Continued Airworthiness and service documents that may be pertinent to your engine model.

If Internet access is not available, contact our Customer Service Department at: 1-888-826-5465 Toll free in the United States or 1-251-436-8299 International

Engine Returns

Return engines for core credit with this log book to: Continental Motors, Inc. 2039 Broad Street Mobile, AL 36615 USA

Return engines for overhaul with this log book to: Continental Motors, Inc. Factory Service Center 8600 County Road 32 Fairhope, Alabama 36532 USA

USE ONLY FUEL SPECIFIED IN OPERATOR'S MANUAL OR TYPE CERTICATE DATA SHEET USE OF AUTOMOTIVE FUEL IS PROHIBITED



Continental Motors

FAA PRODUCTION CERTIFICATE NO. 508

Printed:09/18/2017 Test Date09/16/2017

This engine model I0550C49B, serial number 1034605 was manufactured by Continental Motors, Inc. in accordance with approved design data and the applicable requirements of 14 CFR, Part 21. The approved design data for this engine incorporates all changes required by applicable FAA Airworthiness Directives and Continental Motors Service Bulletins.

CONTINENTAL MOTORS, INC.

Form 6012-03 (Rev Sept 2014)

	Total	Time		nce Last rhaul	Engine Service and Maintenance Re	CO
)ate	Hours	Min	Hours	Min	Record maintenance actions including engine part removinstallation and compliance with inspections, Airworthiness Dir Special Inspections, Modifications and Service Bulletins	
^	Madison A	ir Cente	r. 7450 (Old Cani	ton Rd., Madison, MS, 39110 (601) 853-9358	
	The second secon				ce Entry N328M October 27, 2017	
	Co	ntinent	al 10-550		S/N: 1034605 Hobbs: 1796.3 TSN: 0.0	
V	<u>laintenanc</u>			A	Leffice 15 or Dance Company	
	1) Ins 17,	2011.	Snannon .	Aviation	baffling kit sn D4992 per STC SA09220SC reissue date June	
	2) Ins	talled en	gine with	new Lord	d mounts pn J10778-16 and new Teflon flammable fluid hose	
	kit 3) Re	pn BE 58 sinstalled	3-2R from	Precisio	n Hose Technology, Tulsa, OK.	
	o) Ke NJ:	5R069N	sales ord	system a ler 10827	ofter inspection and repair by Dawley Aviation FAA CRS of dated 10/23/17.	
	4) Ne	w exhaus	st bracket	s pn 96-9	950013-9 and 96-640012-5.	,
	5) Rei	installed	propeller	pn PHC-	J3YF-2UF sn ED4445B after overhaul by First Flight R547X on work order 2295 dated 10/12/17.	
	6) Ins	talled ne	w deice b	rush bloc	k pn RA2171.	,
	7) Gr	ound ran	engines	and set f	uel systems per Continental SD97-3	
V	Vork perfor	ned by C	lharles R	Honner	David C. Entrekin and R. G. Sheridan Stephen Brent	
Ď	uncan.	1 1 1		Поррог,	Savid O. Emidian and N. O. Gilondan Glophen Blent	_
_		$\mathcal{L} \mathcal{M}$	11m			
_ с	harles R. F	lopper	W.			
	P 3564582					
1	Installe	d oil and d new Cl	 removed -148108-1	oil filter a	sample taken mid stream. Inspected filter with no metal noted. and safetied. Serviced engine sump with 11 quarts Phillips ttle of Camguard. Washed engine. Ground ran. No leaks	
	Vork nerfori	med hv [David-C F	-ntrokin s	and Stephen Brent Duncan.	
\dashv	5511011		1/1/		and ocephori bronk bulledil.	
→ n	avid C. En	trekin 🕖	Mill	o Mi	Men	-
Ā	P 3398557	" OKIII JO	e course	7 60		<u>-</u>
	Madison A	\ir Cente	er, 7450	Old Can	ton Rd., Madison, MS, 39110 (601) 853-9358	
		Right	=ngine N	/lainten:	ance Entry N328M April 16, 2018	
	Co <u>Vaintenan</u>	ntinent	al IO-55(0-C31	S/N: 684473 Hobbs: 1824.9 TSN: 38.6	ļ
1) Performe	ed 100 hr	/annual ir	spection	n/maintenance in accordance with Hawker Beechcraft Corp.	!
7	74/80, 5)	a Differe	intial Com	pression	Check Results as follows: 1) 75/00 0) 70/00 0) 70/00	1
3) installed	new BA-	7705 indu	iction air	filter	-
- 1 4) Changed	oil and f	ilter. Serv	iced with	12 quarts Phillips 20M/50 YC and and and and are	<u></u>
		1 111(0); (-rut operit	and mspe	cted filter, no metal found.	· }
ţ					David C. Entrekin and R. G. Sheridan.	
	erformed a	round ru	n and one	rational e	checks. No defects noted at this time.	
P	bio on≈!≔ : '	touria (u				
	mo origino i	IIOS NEEL	: II (SDECLE	u m accc	MOANCE With a 100 HOUR INCRECTION :=	-
	mo origino i	IIOS NEEL	: II (SDECLE	u m accc	ordance with a 100 HOUR INSPECTION, in conjunction with ned to be in an airworthy condition.	
ai	mo origino i	spection,	: II (SDECLE	u m accc	MOANCE With a 100 HOUR INCRECTION :=	

	Total	Time	Time Sin Over		Engine Service and Maintenance Re	ecoro
Date	Hours	Min	Hours	Min	Record maintenance actions including engine part reminstallation and compliance with inspections, Airworthiness Especial Inspections, Modifications and Service Bulletins	oval ar Directive
ied <i>Ma</i>	adison Air	⁻ Center	. 7450 O	ld Canto	on Rd., Madison, MS, 39110 (601) 853-9358	
	LZI	ynreng	line Mair	itenand	ce Entry N328M October 11, 2018	
	Conf	tinental	IO-550-0	C31	S/N: 1034605 Hobbs: 1864.9 TSN: 68.6	
	intenance	Actions	<u> </u>			
1)	Installed X/C 20W noted	new CH4 50 engin	moved filt \$8108-1 o e oil and d	ter. Oil si il filter ar one bottl	ample taken mid stream. Inspected filter with no metal noted. nd safetied. Serviced engine sump with 11 quarts Phillips e of Camguard. Washed engine. Ground ran. No leaks	
		E)			<u></u>
	ohen Bren 3735203	t Duncar	1			
		~	7150 OK	d Canto	n Rd., Madison, MS, 39110 (601) 853-9358	
Ma	dison Air	Center,	gine Ma	intenar		
	Cant	inontal	10-550-C	:31	2114. 00-1-110	
	arformed	100 hr/a	nnual inst	nection/n	naintenance in accordance with Hawker Booston	<u> </u>
1) <u> </u>	Jaron 58 M	laintenar	nce Manua	al Inspec	otion Checklist. Check. Results as follows: 1) 72/80, 2) 70/80, 3) 74/80, 4)	
						:
3) 4)	installed n Changed (ew BA-7 oil and fil	705 induc ter, Servic	nd inspe	cted filter, no metal found.	
	_H40 100-	ned by C	harles R.	Hopper,	David C. Entrekin and Stephen Brent Duncan.	
Pe	rformed gi	round rui	n and ope	rational	checks. No defects noted at this time. ordance with a 100 HOUR INSPECTION, in conjunction with ned to be in an airworthy condition.	,
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Madi					Rd., Madison, MS, 39110 (601) 853-9358	,
-			e Mainte I-550-C3		Entry N328M October 24, 2019 S/N: 1034605 Hobbs: 1922.7 TSN: 96.3	
1) E	istalled ne	and remow w CH48	108-1 oil fi	ilter and	nple taken mid stream. Inspected filter with no metal noted. safetied. Serviced engine sump with 12 quarts Phillips e. Ground ran. No leaks noted	
1	- N	Somi			-	
	ince D. Za i0965638	v eina			<u></u>	
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	Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358 Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358 Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358 Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358 Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358 Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358 Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358	j
	Madison Air Genter, 7450 Old Canton Yes, N328M May 19, 2020 Right Engine Mainter ance Entry N328M Hobbs: 1944.4 TSN: 148.4	_
Date		
	Continental IO-550-C31 S/N: 684473 S/N: 684473 Maintenance Actions Maintenance Actions	Ą
	1) Performed 100.hr/annual inspection/maintenance in accordance 1) Performed 100.hr/annual inspection Checklist. Baron 58 Maintenance Manual Inspection Check. Results as follows: 1) 76/80, 2) 70/80, 3) 70/80, 4) 2) Performed Differential Compression Check. Results as follows: 1) 76/80, 2) 70/80, 3) 70/80, 4)	-
ried forw	Baron 58 Maintenance Warner No. Check, Results as follows. ()	:
	2) Performed Differential Company on Champion	r :
	(4/80, 0) the standard on all filler.	
	3) Installed new Branch of Removed filter and inspected with the Phillips 20W50 XC.	
	3) Installed new BA-7705 Inductor and inspected with no metal notes. 3) Installed new BA-7705 Inductor and inspected with no metal notes. 4) Dirained engine oil. Removed filter and inspected with 12 quarts Phillips 20W50 XC. CH48108-1 filter and sattled Serviced with 12 quarts Phillips 20W50 XC. CH48108-1 filter and sattled Serviced with 12 quarts Phillips 20W50 XC.	-
	CH48 100-1 miles and Stephen David C. Entrekin and Stephen Dross	
	CH48108-1 filter and sattled Serviced with 12 quarts i many CH48108-1 filter and sattled Serviced with 12 quarts i many Work performed by Charles R. Hopper, David C. Entrekin and Stephen Brent Duncan. Work performed by Charles R. Hopper, David C. Entrekin and Stephen Brent Duncan.	-
	apprational checks, to do not pulle inspection, in containing	_
-	Performed ground full and opening perfect in accordance with a 100 Hoos condition.	
	Work performed by Charles Performed ground run and operational checks. No defects noted at this time. Performed ground run and operational checks. No defects noted at this time. Performed ground run and operational checks. No defects noted at this time. Performed ground run and operational checks. No defects noted at this time. Performed by Charles Performed ground run and operational checks. No defects noted at this time. Performed ground run and operational checks. No defects noted at this time. Performed ground run and operational checks. No defects noted at this time. Performed ground run and operational checks. No defects noted at this time.	-
	an annual Inspection, and	_
	1 A D 1/1.	
	C. K. I/Mam	-
	Charles R. Hopper	
	AP/IA 3564582	_
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	052 0252	
	Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358 Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358 Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358	•
	Madison Air Center, 7450 Old Californ No., Was N328M May 4, 2021	
	1 8(010 E)(000 """" 12 / 4 PO 13 / 6 / 6 / 7 / 7 / 7 / 7 / 7	
	Continental IO-550-C31 S/N: 684473 Hobbs. 1 S/N: 684473 Hobbs. 1 Maintenance Actions Maintenance Actions Maintenance Actions Maintenance Actions	
	Maintenance in accordance with Hawker Beechcraft Corp.	
	Continental IO-550-C31 Maintenance Actions Maintenance with Hawker Beechcraft Corp. 1) Performed 100 hr/annual inspection/maintenance in accordance with Hawker Beechcraft Corp. 1) Performed 100 hr/annual inspection Checklist. 50 Maintenance Manual Inspection Checklist.	
	Baron 58 Maintenance Manual Inspection Check (MOT 43/80). Results as follows: 1) 74/60, 2) 10/65	
	1) Performed 100 hr/annual inspection/maintenance of the state of the	
	2) Performed Differential Colling (1997) 2) Performed Differential Colling (1997) 2) 66/80, 6) 68/80. 3) 68/80, 4) 74/80, 5) 66/80, 6) 68/80. 3) 68/80, 4) 74/80, 5) 66/80, 6) 68/80. 3) 68/80, 4) 74/80, 5) 66/80, 6) 68/80.	
<u> </u>	Installed new BA-From the second filter and inspected with 10 metatrio Drained engine oil. Removed filter and inspected with 12 quarts Phillips 20W50 XC. CH48108-1 filter and saftied. Serviced with 12 quarts Phillips 20W50 XC.	
	CHARTUR-T (BIEF AND SAME	
	and lighted by: Elliott Sanders and Mark A. Ocris.	i
	Work accomplished by tames Work accomplished by tames Performed ground run and operational checks. No defects noted at this time. Performed ground run and operational checks. No defects noted at this time. Performed ground run and operational checks. No defects noted at this time.	-
	Performed ground run and operational checks. No defects noted at this time. Performed ground run and operational checks. No defects noted at this time. This engine has been inspected in accordance with a 100 HOUR INSPECTION, in conjunction with the respection, and was determined to be in an airworthy condition.	ŧ
	This engine has been inspected in accordance with a painworthy condition.	Ī
	This engine has been inspected in accordance with a 100 hood. This engine has been inspected in accordance with a 100 hood. an annual inspection, and was determined to be in an airworthy condition.	-
	Mar a h	
		-
	74. U. B.	
	Mark A. Ochs	i
	1 an 4000E96	;
	Madison Air, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-1960	:
	Engine Maintenance Entry N328W 57772 NOVI 242.4	i
	Engine Maintenance Entry (1025) TCM IO-550-C49B S/N: 684473 Tach: 1998.4 SMOH: 212.1	
	101010 000	
	a management of the second of	
_	formed engine compression test 1) 78/80 2) 78/80 3) 75/80 4) 74/80 5) 76/80 6) 72/80. Timed magnetos	
Pet	formed engine compression test 1) 78/80.2) 78/80.3) 75/80.4) 74/80.3) 76/80.0) 76/80.0) 76/80.0) 76/80.2) 78/80.2) 78/80.3) 76/80.3) 76/80.0) 76/80.0) 76/80.2) 76/80	
to 2	23* before TDC. Cleaned gapped and inspected spark plugs. Drained engine on contests 23* before TDC. Cleaned gapped and inspected spark plugs. Drained engine with 11qts Philips X/C pected oil filter. Filter OK. Installed new CH48108-1 filters open all engine controls.	
inș	pected oil filter. Filter OK. Installed new CH46106-1 little and below CH46	
20	M-20 OII. HISISHED HOW DATE TOO MIRES ON THE COLUMN THE	
	rformed Annual Inspection in accordance with TCM IO-550 Service Manual. Performed ground run and	
Pe	rformed Annual Inspection in accordance with a second state of the	
op	erational checks. No defects noted at this time.	
1	ertify this Engine has been inspected in accordance with an ANNUAL INSPECTION and was	
I c	ertify this Engine has been inspected in accordance with an inspected in accordance with a inspected with a inspected in accordance with a inspected with a inspected in accordance with a inspected with a inspe	
de	termined to be in an airworthy condition.	
	WWW WWW.	
c	arles R Taylor A&P 3734996 IA	
1		

	, 7450 Old Canto	on Rd., Mad	ison, MS,	39110	(601) 853-1960)	nce Recor
Engine TCM IO-550	e Maintenance E 0-C49B S/N	:ntry 13	Tach:	2019.2	2 SMOH: 223.	2	part removal a rthiness Directive
Performed engine compre imagneto timing. Cleaned Drained engine oil collect serviced engine with 11qt exhaust bracket P/N 96-9.	ed sample and inspect of Philips X/C 20W 50013-9 . OPS che	pected oil filt 7-50 oil. Insta ock all engine	er, Filter O Iled new B controls.	K, Insta A-7705	lled new AA481 engine air filter	s Installed nev	
Performed Annual Inspec	ction in accordance efects noted at this	with TCM I time.	O-550 Serv				u .
If certify this Engine has determined to be in an aid	3734996 A	nton Rd., Ma					
	Mantenanos	Tach: 20)32.0			-	
Installed new vacuum p OPS check good. Alstin T. Prejean A&P	4558182		1,1403 011 11				`
1: Approving Civil Aviation 2	AUTHORIZED RELI DRM 8130-3. AIRWO	ASE CERTIÉI	CATE PROVAL TAG	3	m Tracking Number		
Organization/Name and Address o Accessories, LLC 2208 Air Park Driv	YV4R688M FAA-PMA ,e, Burlington, NC 27215	PQ1206CE	5. Work Order	r / Contract I17JY-0			
em 7. Description 1 Dry Air Pump Remarks OVERHAULED IN ACCORD/	8. Part Nurr AA442CW	/-12 1	173	Y03	11. Status / Work OVERHAUL 19 Rev. B dated		
Remarks OVERHAULED IN ACCORD/ 23/2006CERTIFIES THAT THE WORK (D) IN RESPECT TO THAT WORK THE C APPROVAL NUMBER EASA, 145, 5682	COMPONENT IS CONSIDER	RED READY FOR R	3.9 Return To Service	VICE UND	ER EASA PART		
		Certifos that unless otherv described in blockt 2 was Regulatione, part 43 and in	vise apecified in block 12 accomplished in accordar respect to that work, the	, then work identif ace with Title 14, C terns are approv	ied in block 11 and lods of Federal ad for ratum to service.		
		14b Authorized Signature	Kim C	Can.	te. Approvat/Certificate No. YV4R986M to Date (dd/mmr/yyyy) 18/Dec/2023		
	thor / Installer Resp	onspites	m Clase	he sircraft en	nine/oronalier/article.		
is important to understand that the existence in the existence of the user/insteller performs work in accorporate year against that it is essential that it is exit in the exit in the call of the country specifications in Blocks 13 and 14a do not constitute in Ecoordance with the national regulations.	the user/installer ensures that his fied int Block 1.	/her airworthiness auth	ority accepts aircrat	t engina(s)/pr	obellet(s)tatticle(s) Itom		
sued in scordance with the national regulation				NSN 005	2-00-012-9005		

	Total	Time	Time Sir Over	nce Last rhaul	Engine Service and Maintenance Record
Date	Hours	Min	Hours	Min	Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
Carried forward -			,	'	
			+	HA	AWKINS SERVICE CENTER +
		N	I328M	Rt. Engine	Date 1-15-2025 TSN 236.4 Hm 2032.7
		filte gap hare BA che	er. Inspected ped spark p dware on ou -7705. Tigh cks OK. No	l oil filter. I lugs. Fuel s atbd exhaus atened and s b leaks note	*
		Ice	ertify that th	is engine h rthy conditi	as been inspected in accordance with an ANNUAL inspection and was determined
		S	heldon A B	urgess A&	on. P 2159379 IA Sheldon a Burgen
			<u> </u>		

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910 MARIA STREET KEN VER, LOUIS-AMA 70062 (504) 469-6751

SELECT AVIATION SERVICES LLC/LUKETAVIOUS AVIA Aircraft: BEECH

Attn: BREWER PEARSON

132 ADDERLY BLVD

S/N: TH1992

Tail No.: N328M-RH

Date: 12/5/2024

Engine S/N: 1034605 Engine Model: CONT. 550

MADISON MS 39110 United States

Values in (parenthesis) below your results are average values from all our analysis data for the same engine model with similar engine hours and oil

URRENT SAMPLE	SAMPLE APPE	ARS NORMAL				many the commence of the comme			apper 000	levated	Migh
Sample Date: 11/27/2024		_	*** OIL			S IN PARTS					# B . l
Analysis Date: 12/4/2024	Iron Copp	er Nickel	Chromium	Silver M	agnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly
Sample Number: P35	43.7 2.3	0.7	3.0	AVA	M/A	7.2	1052	< 0.1	N/A	< 0.1 (0.1)	N/A
Cylinder Type: sleel	(41.2) (4.4	(5.8)	(7.1)			(6,9)	(2703)	(5.0)		U.II	
				*** FIL	TER ANAL	YSIS RESUI	LTS ***				
TSN/TSO: 236.7		Stainless	Carbon	Alloy	Bearing	Copper	Silver	Magn.	Alum.	Grit	Misc
Oil Hours: 13.5	Materi	al: Steel	Steel	Steel	Alloy						
Filter Hours: 13.5	Amou	int:									w
Oil Added: 1	Тур	pe:									
Filter Wt. (mgs):											
Flashpoint(deg. F):	For	m'						-			
H20 (ppm):	FUI	HI.									
Total Acid No.:											
omments: ALL OIL VALUES SEEM FI	NE, WE WILL CO	N OT BUNITAC	IONITOR T	HIS ENGINE	WITH YO	UR NEXT SAN	APLE.				
omments: ALL OIL VALUES SEEM FI	Contraction of the Contraction o	ONTINUE TO ME	_, Send nex	t sample at	normal int	erval.				Elevated	Figu
REVIOUS SAMPLE 1 Sample Date: 3/28/2022	Contraction of the Contraction o	EARS NORMA	Send nex	t sample at L ANALYSI	normal into	erval. TS IN PARTS	PERM	1	**		
PREVIOUS SAMPLE 1 Sample Date: 3/28/2022 Analysis Date: 5/13/2022	Contraction of the Contraction o	EARS NORMA	Send nex	t sample at L ANALYSI Silver M	normal into S RESUL' lagnesium	FVAL TS IN PARTS Aluminum	PER M Lead	Silicon	** Titanium	Tin	Mol
Sample Date: 3/28/2022 Analysis Date: 5/13/2022 Sample Number: P30	SAMPLE APPL Iron Copp 18,4 2,6	EARS NORMA	*** Oll Chromium 4,0	t sample at L ANALYSI	normal into	Frval. IS IN PARTS Aluminum 5,3	PER M Lead 1580	Silicon 6.0	**	Tin < 0.1	Moly NI/A
REVIOUS SAMPLE 1 Sample Date: 3/28/2022 Analysis Date: 5/13/2022	SAMPLE APPI	EARS NORMA	Send nex *** Oli Chromium	t sample at L ANALYSI Silver N	normal into S RESUL [*] lagnesium N/A	Frvat. TS IN PARTS Aluminum 5.3 (N/A)	PER M Lead 1580 (N/A)	Silicon 6.0 (N/A)	** Titanium	Tin	Mol
Sample Date: 3/28/2022 Analysis Date: 5/13/2022 Sample Number: P30	SAMPLE APPL Iron Copp 18,4 2,6	per Nickel 6 1.3	*** Oli Chromium 4.0 (N/A)	t sample at L ANALYSI Silver N N/A	normal Into S RESULT lagnesium N/A	Frval. IS IN PARTS Aluminum 5,3	PER M Lead 1580 (N/A)	Silicon 6.0 (N/A)	** Titanium	Tin < 0.1 (N/A)	Moly
Sample Date: 3/28/2022 Analysis Date: 5/13/2022 Sample Number: P30	iron Copp 18.4 2.6 (N/A) (N/A	per Nickel 6 1.3 (A) (N/A)	*** Oll Chromium 4.0 (N/A)	t sample at ANALYSI Silver N N/A *** FIL Alloy	Romal Info S RESULT lagnesium N/A TER ANA Bearing	Frvat. TS IN PARTS Aluminum 5.3 (N/A)	PER M Lead 1580 (N/A)	Silicon 6.0 (N/A)	** Titanium	Tin < 0.1	Moly
Sample Date: 3/28/2022 Analysis Date: 5/13/2022 Sample Number: P30 Cylinder Type: steel	Iron Copp 18.4 2.4 (N/A) (N/A	per Nickel 6 1.3 (A) (N/A) Stainless	*** Oli Chromium 4.0 (N/A)	t sample at L ANALYSI Silver N N/A	normal Into S RESULT lagnesium N/A	Frai. IS IN PARTS Aluminum 5.3 (N/A) LYSIS RESU	PER M Lead 1580 (N/A) LTS ***	Silicon 6.0 (N/A)	Titanium	Tin < 0.1 (N/A)	Mol
Sample Date: 3/28/2022 Analysis Date: 5/13/2022 Sample Number: P30 Cylinder Type: steel TSN/TSO: 212	iron Copp 18.4 2.6 (N/A) (N/A	per Nickel 6 1.3 (A) (N/A) Stainless	*** Oll Chromium 4.0 (N/A)	t sample at ANALYSI Silver N N/A *** FIL Alloy	Romal Info S RESULT lagnesium N/A TER ANA Bearing	Frai. IS IN PARTS Aluminum 5.3 (N/A) LYSIS RESU	PER M Lead 1580 (N/A) LTS ***	Silicon 6.0 (N/A)	Titanium	Tin < 0.1 (N/A)	Mol
Sample Date: 3/28/2022 Analysis Date: 5/13/2022 Sample Number: P30 Cylinder Type: steel TSN/TSO: 212 Oil Hours: unknown	iron Copp 18.4 2.6 (N/A) (N/A) Mater Amou	per Nickel 6 1.3 (A) (N/A) Stainless	*** Oll Chromium 4.0 (N/A)	t sample at ANALYSI Silver N N/A *** FIL Alloy	Romal Info S RESUL lagnesium N/A TER ANA Bearing	Frai. IS IN PARTS Aluminum 5.3 (N/A) LYSIS RESU	PER M Lead 1580 (N/A) LTS ***	Silicon 6.0 (N/A)	Titanium	Tin < 0.1 (N/A)	Mol
Sample Date: 3/28/2022 Analysis Date: 5/13/2022 Sample Number: P30 Cylinder Type: steel TSN/TSO: 212 Oil Hours: unknown Filter Hours: 2	iron Copp 18.4 2.6 (N/A) (N/A) Mater Amou	per Nickel 6 1.3 (A) (N/A) Stainless rial: Steel	*** Oll Chromium 4.0 (N/A)	t sample at ANALYSI Silver N N/A *** FIL Alloy	Romal Info S RESUL lagnesium N/A TER ANA Bearing	Frai. IS IN PARTS Aluminum 5.3 (N/A) LYSIS RESU	PER M Lead 1580 (N/A) LTS ***	Silicon 6.0 (N/A)	Titanium	Tin < 0.1 (N/A)	Mol
Sample Date: 3/28/2022 Analysis Date: 5/13/2022 Sample Number: P30 Cylinder Type: steel TSN/TSO: 212 Oil Hours: unknown Filter Hours: 2 Oil Added: Filter Wt. (mgs): Flashpoint(deg. F):	Iron Copp 18.4 2.0 (N/A) (N/A) Mater Amou	per Nickel 6 1,3 (N/A) Stainless rial: Steel unt:	*** Oll Chromium 4.0 (N/A)	t sample at ANALYSI Silver N N/A *** FIL Alloy	Romal Info S RESUL lagnesium N/A TER ANA Bearing	Frai. IS IN PARTS Aluminum 5.3 (N/A) LYSIS RESU	PER M Lead 1580 (N/A) LTS ***	Silicon 6.0 (N/A)	Titanium	Tin < 0.1 (N/A)	Mol
Sample Date: 3/28/2022 Analysis Date: 5/13/2022 Sample Number: P30 Cylinder Type: steel TSN/TSO: 212 Oil Hours: unknown Filter Hours: 2 Oil Added: Filter Wt. (mgs):	Iron Copp 18.4 2.0 (N/A) (N/A) Mater Amou	per Nickel 6 1.3 (A) (N/A) Stainless rial: Steel	*** Oll Chromium 4.0 (N/A)	t sample at ANALYSI Silver N N/A *** FIL Alloy	Romal Info S RESUL lagnesium N/A TER ANA Bearing	Frai. IS IN PARTS Aluminum 5.3 (N/A) LYSIS RESU	PER M Lead 1580 (N/A) LTS ***	Silicon 6.0 (N/A)	Titanium	Tin < 0.1 (N/A)	Moi