OLD FINDS- NEW INSIGHTS: REMARKS ON TWO ROMAN LEAD INGOTS FROM MINAS DE RIOTINTO (HUELVA, ESPAÑA)

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ABSTRACT
The authors analyze two Roman lead ingots found at Minas de Riotinto and only known by old photographs. Both ingots can be attributed to an entrepreneur involved in the mining business of Cartagena in the first half of the 1st century BC.

RESUMEN
Los autores analizan dos lingotes de plomo romanas encontradas en Minas de Riotinto y sólo conocen por fotos antiguas. Ambos lingotes se pueden atribuir a un empresario involucrado en el negocio minero de Cartagena en la primera mitad del siglo primero a.C.

PALABRAS CLAVE
lingotes de plomo; messii; minería romana; riotinto; cartagena.

KEYWORDS
lead ingots; messii; roman mining; rio tinto; cartagena

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While discussing the findspot of El Castillejo (El Campillo) near Minas de Riotinto Juan Aurelio Pérez Macías and Aquilino Delgado Domínguez also described selected finds of Republican age from the mining area of Riotinto kept in the Museo Minero de Riotinto and the Museo de Huelva (Pérez Macías, Delgado Domínguez, 2011, 70-73). The authors mentioned among other objects two hitherto unknown lead ingots found at the “zona del Filón Norte”. Both are only known by two black and white photos taken in 1904 (fig. 1 and 2), which are kept in the Archivo Histórico Minero de Fundación Río Tinto. The slightly overexposed pictures show round shaped ingots of Republican type typically for the Roman lead production of Cartagena. On their back each one has two small rectangular panels with moulded inscriptions and signs. One of the ingots (Inv. n°. A-8 N° 922) is damaged (fig. 1): the left end up to the beginning of the panel is cut off and more than a dozen (drilling?) holes can be seen on the back damaging also the left panel. The other ingot seems to be fully conserved (fig. 2), but the overexposure of the photo (Inv. no. A-8 N° 923) makes it extremely difficult to read single letters of the moulded inscription in the left panel.

Furthermore two ingots, now lost, “con sello de Cartago Nova” (Pérez Macías, Delgado Domínguez, 2011, 70). These two ingots with the typical round shaped form of Republican lead ingots produced at the mines near Cartagena had been found at Riotinto in a slag pile. The correct reading of the stamp is Nova Carthago (Rickard, 1926/1927, 333; CILA I 46). ~ The wrong reading also in Domergue, 1966, 68 and in Millán, 1989, 126-127.

On both ingots there is a dolphin moulded in relief within the right panel. Therefore we can assume that in the left panel of each ingot the name of the same entrepreneur or of a societas could be read. Only the picture of the ingot with the cut off left end allows us to read greater parts of that name. J. A. Pérez and A. Delgado had observed “una S inicial, nexo A1 y L final”. They proposed to read Societ(atis) A(rgentaria) IL(ucronensis) (2011, 70; cf. Antolinos Marín et alii, 2013, 95 note 21). Apparently they think that it is the following societas known from moulded inscriptions on several lead ingots:

1) Lead ingot found in Rome (46 x 9 x 10 cm) with three rectangular panels on the back (CIL XV 7916; Antolinos Marín et alii, 2013, 96 fig. 7,2):

\[
\text{Societ(atis) argent(i) } \mid | \text{ fod(inarum) } \cdot \text{ mont(is or -ium) } \cdot \text{ Iluer(onensis or -onensis) } | | \text{ galena}
\]

2) Five lead ingots found at Cabezo del Castillo, Mazarrón (province of Murcia) with three rectangular panels on the back (AE 1907, 135; Besnier 1920, 238 no. 15; Antolinos Marín et alii, 2013, 96 fig. 7,1):

\[
\text{Societ(atis) } | | \text{ mont(is or -ium) } \cdot \text{ argent(ifodinarum) } | | \text{ Iluer(onensis)}
\]
3) Lead ingots from a newly discovered shipwreck near Messina (Sicily) with three panels on the back (Rothenhoefer et alii, forthcoming):

Societ(atis) arg(enti-) || fod(inarum)
mont(is) Ilucronensis vel –onensium) ||
galena?]

The name of that societas probably appears on small lead seals found at the Cabezo del Castillo, Mazarrón. There we read the very simple form $S \cdot A \cdot I = s(ocietatis) a(ргентифодинаrum) I(lu-
cronensium)$ (Antolinos Marin et alii, 2013, 104–112; Antolinos Marín, Díaz Ariño, 2012, 33-35). But on the ingots we always find a clearly longer version of that name. This observation together with the fact that there is no combination with the sign of a dolphin on those ingots causes doubts about the text proposed by J. A. Pérez and A. Delgado.

Indeed, a close view on the photo of the damaged ingot (Inv. n° A-8 N° 922) allows to suggest another formular (fig. 3b): The first letter after the cut is damaged at the bottom, it must be an E or F. It is followed by double S, after that the lower part of an I (the upper part destroyed by a drilling hole); the next letter clearly is L, followed by a vertical line. That means: [- - -]ESSILI or [- - -]ESSILI. The latter reading can be compared with names already documented on lead ingots: $C M E S S I L F = C(aii) Messi(i) L(ucii) f(ili) on one ingot found in Italy at Savignano del Rubicone (province of Forlì-Cesena) (CIL 11, 6722, 13; Besnier, 1921, 109 and 127 n°; 61; Davies 1935, 109 note 7; Ramallo Asensio, Berrocal Capparos, 1994, 125; Domergue, 1988, 213 tab. 1) and on another ingot found in the wreck Bajo de Dentro at Cabo de Palos (province of Murcia), which is now kept in the Museo Naval in Madrid (Inv. n°. 1061) (fig. 4) (Domergue, 1966, 48 – 50. 53 fig. 2, 3, 3; Id., 1990, 255 n°. 1023; Abascal Palazón, Ramallo Asensio, 1997, 58; Díaz Ariño, 2008, 283 SPI8. Cf. Domergue, 1988, 213 tab. 1). On the back of these ingots two panels can be observed, on the left a panel with a dolphin, on the right a panel with the name of the entrepreneur Caius Messius (fig. 3a). That the name appears in the second panel is no obstacle to use it for the reconstruction of the two ingots from Riotinto.

The type of all four ingots is typical for the lead production in the area of Cartagena (cf. Domergue, 1966). This and the find spot at Cabo de Palos not far from Cartagena lead to the conclusion, that Caius Messius was active there. It is confirmed by lead isotope analyses, but unfortunately the lead isotope data provided by Pier Renato Trincherini and his colleagues do not allow to safely distinguish whether the lead was produced inside the mining areas of La Unión or Mazarrón (Trincherini et alii, 2009, 129 nœ. 22-23). That Messius had been present in
Roman Cartagena is confirmed by epigraphic evidence: Marcus Messius Samalo, freedman of Marcus, died there during the reign of Augustus (AE 1977, 458; Abascal Palazón, Ramallo Asensio, 1997, 369-371 n° 153). Although no direct line between Caius Messius, who had been engaged in the metal business in the first half of the 1st century BC, and the patron and former owner of Samalo, Marcus Messius, can be drawn, we can assume that members of the Messii played an active role in the economic life of Cartagena. Already Claude Domergue, following Friedrich Münzer, pointed out that the origins of the gens Messia can be localized in Campania (Domergue, 1966, 50 and 64; Koch, 1978, 257. Cf. Münzer, 1931). Recently, Michele Stefanile draw our attention to Northern Campania as the area of origin of that gens (Stefanile, 2015, 174). There is no doubt that Caius Messius or his predecessors moved to Cartagena – as did e. g. members of the families of the Atellii, Carulii, Nonae, Planii, Seii and Utii – and started to take part in the booming metal business (cf. Domergue, 1990, 321-322; Stefanile 2015).

In his first article on the lead ingots kept in the Museo Naval at Madrid, C. Domergue suggested a date “entre 140 av. J.-C. et la période augustéenne”, and more than 20 years later he gave a date a little bit more limited between the “fin de IIe siècle et première moitié du Ier siècle avant J.-C.” (Domergue, 1966, 67; Id., 1990, 265). Similiar is the date suggested by Borja Díaz Ariño (2008, 283): “El sel- lo puede fecharse hacia mediados del siglo I a.e.” (Domergue, 1966, 67; Id., 1990, 265). The dating of this ship is comparable to the pre-

From a ship sunken near the small island of Mal di Ventre (province of Oristano, Sardinia) in front of the Western shore of Sardinia, ingots have been discovered with the names of M. Aquinius C. f., L. Planius L. f. Russinus, M. and Sex. Calvius M. f. and C. Utius C. f. Donatella Salvi dated the wreck “fra l’89 a.C. - anno in cui la lex Iulia inserisce gli Italici nelle tribù urbane - e la metà del secolo” (Salvi, 1992 a, 247; cf. Salvi 1992 b, 673), while A. Mastino et alii suggested the years around 90/80 BC. (Mastino et alii, 2005, 217 n° 38). A younger date “a mediados del siglo I a.e.” has been favored by Anthony J. Parker, C. Bigagli and B. Díaz Ariño (Parker, 1992, 255–256 n°. 637; Bigagli, 2002, 171; Díaz Ariño 2008, 276). Actually, the Mal di Ventre (A) wreck seems to have been sunken around 80–50 BC.

The ship wreck Madrague de Giens (Département Var, F) had at least one ingot on board that bears the name C. Utius C. f. (in nominative case!) (AE 1976, 385 b; Laubenheimer 1978, 70–71 n° 3 with pl. 24.3 and 25.2). It is dated to around 60–50 BC (Tchernia et alii, 1978, 15-17; Parker, 1992, 249–250 cat. n°. 616; Treister, 1996, 349 n°. 12; Brown 2011, 216 n°. 23). Only B. Díaz Ariño (2008, 275) pleads for a higher date “entre el 75 y el 60 a.e.”

The famous ship wreck from Mahdia (Tunisia) can be linked by ingots of L. Planius L. f. Russinus (Besnirer, 1921, 101. 127 n°. 56; Domergue, 1965, 13 pl. 2 a; Eck, 1994, 91–92 n°. 9–10, fig 9–10; Brown, 2011, 212 n°. 20.9–20.10) with the ship wreck Bajo de Dentro. While the former dating to 100–80 BC must be rejected as too early, depending on the analysis of the youngest ceramic finds, the sinking of the Mahdia ship approximately took place within or shortly after the years of 80 to 65 BC (Rortoff, 1996, 274–275; Brown, 2011, 210 n° 20 [80–70 B.C.E.]; cf. Díaz Ariño 2008, 276: “en la primera mitad del siglo I a.e.”).

Also the ship wreck of Ventotene (province of Latina, Italy) can be connected by ingots of C. Utius with the ship wreck of Bajo de Dentro (Gianfrotta, 1986, 217 fig. 371–372; Brown, 2011, 209 n°. 18; Ritondale, 2014, 28; Stefanile, 2014, 71–73). The dating of this ship is comparable to the previous ones (Gianfrotta, 1986, 217; Parker, 1992, 351 n°. 932), which means that all mentioned ship wrecks and the ingots of the entrepreneur C. Messius can be dated into the second quarter of the 1st century BC. 2

With these two ingots of C. Messius the number

2 The following ship wrecks offshore Sardinia have a similar dating: Punta Falcone, province of Sassari (Bonello Lai, 1986/1987; Parker, 1992, 353 n°. 939; Treister, 1996, 349 n°. 13; Bigagli, 2002, 172–173; Mastino et alii, 2005, 228 n°. 71; Brown, 2011, 218 n°. 26), Capo Testa B, province of Olbia-Tempio (Gandolfi, 1986, 86–88 note 14, fig. 11–12, 15; Bonello Lai, 1986/1987, 37 n°. 1–2; AE 1989, 349 b; Bigagli, 2002, 162–163 fig. 4.1–4.2; Mastino et alii, 2005, 231–232 n°. 83; Brown 2011, 215 n°. 22.1–22.2) and Capo Mannu, province of Sassari, where 13 lead ingots have been recovered (unpublished; stored at the Centro di Restauro, Li Punti, Sassari).
of lead ingots from Cartagena found in the Riotinto mining district rises up to five: Besides the two now lost ingots with the stamp *Nova Carthago* there is one more ingot from the mine El Soldado at El Palomino (Aracena, province of Huelva), on which one can read the name of L. Aurunc(uleius?) Ta(---), freedman of Lucius (CILA I 52; Díaz Ariño, 2008, 279 SP8; Trincherini et alii, 2009, 128 n. 7-8.). If one takes into consideration that only a very small percentage of ingots survived over the times, we have to assume that already in the second quarter of the 1st century BC great quantities of lead from Cartagena have been transported to the mines of Riotinto.\(^3\)

As Paul T. Craddock, Ian C. Freestone, Noél H. Gale, Nigel D. Meeks, Benno Rothenberg and Michael S. Tite pointed out, for the silver production at Riotinto lead had a crucial role already in the first step of the production (Craddock *et alii*, 1985; Anguilano *et alii*, 2010). Because of its role as a sil-

\(^3\) Another ingot with three round stamps showing pentagrams was also found within layers of the 1st century BC in the “Filón Norte” at Minas de Riotinto (Huelva, Museo Provincial Inv.-nº. A/DJ. nº. 5495; Pérez Macías, Delgado Domínguez, 2011, 70; 72–73 pl. 9,7-8). Due to typological reasons a provenance from mines of the Cartagena district is unlikely.

ver collector lead was “periodically sprinkled” into the furnace. During a later step of production, the silver could be won by cupellation.

The two lead ingots bearing the name of C. Messius give evidence that intense trading connections between the lead-silver mines near Cartagena and the Riotinto mining district north of Huelva already had been established in the second quarter of the first century BC. They are also important documents for the interconnectivity of Roman mining areas in Hispania in Republican time.

\[\text{Fig. 5: Distribution map of ingots bearing the inscription of C. Messius.} \]
P. Rothenhoefer/J. Hollaender.

**Bibliography**

AE = L’Année Épigraphique.

CIL = Corpus Inscriptionum Latinarum.

CILA = Corpus de inscripciones latinas de Andalucía.


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