

## Lampiran 2 Uji Komposisi Logam

Program: FE-10										12/17/2016 10:51:00 AM
Comment: Low alloy steel		11863/00								Elements: Concentration
Single spark(s)										
Sample No: A	Quality:									
Sample Id: ATAS										
No	C	Si	Mn	P	S	Cr	Mo	Ni	Al	
	%	%	%	%	%	%	%	%	%	
1	0.1522	0.0070	0.2924	>0.1000	>0.1200	0.0339	0.0104	0.0060	0.4951	
2	0.1424	0.0079	0.2903	>0.1000	>0.1200	0.0345	0.0103	0.0093	0.500	
No	Co	Cu	Nb	Ti	V	Pb	Sn	B	Fe	
	%	%	%	%	%	%	%	%	%	
1	0.0080	0.0206	0.0088	0.0121	0.0017	0.0023	0.0292	>0.0100	<93.57	
2	0.0085	0.0193	0.0103	0.0210	0.0020	0.0023	0.0290	>0.0100	<93.74	
Program: FE-10										12/17/2016 10:51:59 AM
Comment: Low alloy steel		11863/00								Elements: Concentration
Average (n=2)										
Sample No: A	Quality:									
Sample Id: ATAS										
x	C	Si	Mn	P	S	Cr	Mo	Ni	Al	
	%	%	%	%	%	%	%	%	%	
x	0.1473	0.0075	0.2914	>0.1000	>0.1200	0.0342	0.0104	0.0066	0.4754	
x	Co	Cu	Nb	Ti	V	Pb	Sn	B	Fe	
	%	%	%	%	%	%	%	%	%	
x	0.0087	0.0199	0.0095	0.0165	0.0019	0.0024	0.0271	>0.0100	<93.66	

17/12 2016,  
 LABORAT  
 Jeffrey  
 CH. Jeffrey



# PT. HP. METALS INDONESIA

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17/2016

DATE

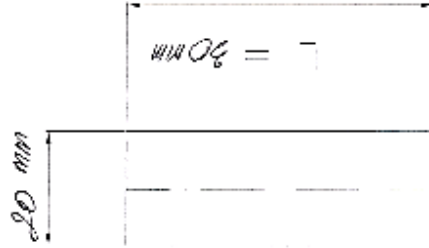
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INSPECTED BY: *[Signature]*

SAMPLE NO: A

ILLUSTRATION:

scale



K	ELEMENTS	SAMPLE		K	ELEMENTS	SAMPLE	
		RESU	RESULT			RESU	RESULT
A	Si	0.0675		P	No	0.0095	
B	C	0.1475		Q	S	>0.1200	
C	Cu	0.0193		R	Al	0.4754	
D	Mn	0.2814		S	Fe	93.56	
E	Vo	0.0104		T			
F	V	0.0019		L			
G	Ni	0.0082		V			
H	Cr	0.0342		W			
I	Pb	0.0024		X			
J	Sr	0.027		Y			
K	Ti	0.0165		Z			
L	B	>0.0180		a			
M	Co	0.0087		b			
N	Na	C		c			
O	P	>0.1680		d			
EXPLAIN							
ITEM	REQUEST	ACTUAL	CHANGE	RESULT			
HARGES							
ANALYZE							
REMARKS:							

Program: FE-10  
Comment: Low alloy steel  
Single spark(s)

11863/00

12/17/2016 10:54:38 AM

Elements: Concentration

Sample No: B  
Sample Id: BAWAH

Quality:

No	C %	Si %	Mn %	P %	S %	Cr %	Mo %	Ni %	Al %
1	0.1710	0.0754	0.2782	>0.1000	>0.1200	0.0354	0.0117	0.0090	0.3703
2	0.1459	0.0544	0.2012	>0.1000	>0.1200	0.0254	0.0107	0.0000	0.3340

No	Co %	Cu %	Nb %	Ti %	V %	Pb %	Sn %	B %	Fe %
1	0.0089	0.0161	0.0096	0.0185	0.0016	0.0020	0.0356	>0.0180	<93.54
2	0.0088	0.0179	0.0084	0.0110	0.0019	0.0022	0.0360	>0.0180	<93.56

Program: FE-10  
Comment: Low alloy steel  
Average (n=2)

11863/00

12/17/2016 10:55:43 AM

Elements: Concentration

Sample No: B  
Sample Id: BAWAH

Quality:

	C %	Si %	Mn %	P %	S %	Cr %	Mo %	Ni %	Al %
x	0.1584	0.0649	0.2847	>0.1000	>0.1200	0.0354	0.0112	0.0066	0.3532

	Co %	Cu %	Nb %	Ti %	V %	Pb %	Sn %	B %	Fe %
x	0.0088	0.0170	0.0090	0.0147	0.0017	0.0021	0.0368	>0.0180	<93.55

12/17/2016

LABORATORY

*Jeffrey*

(M. Jeffrey)



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NO	ELEMENTS	SAMPLE		NO	ELEMENTS	SAMPLE	
		RESULT				RESULT	
A	Si	0.0649		P	Nb	0.0090	
B	C	0.1584		Q	S	0.1200	
C	Cu	0.0170		R	Al	0.3552	
D	Mn	0.2847		S	Fe	<93.55	
E	Mo	0.0112		T			
F	V	0.0017		U			
G	Ni	0.0088		V			
H	Cr	0.0354		W			
I	Pb	0.0021		X			
J	Sn	0.0360		Y			
K	Ti	0.0147		Z			
L	B	>0.0180		a			
M	Co	0.0088		b			
N	Na	0		c			
O	P	>0.1680		d			
EXPLAIN							
ITEM	REQUEST	ACTUAL	CHANGE	RESULT			
HARDNESS							
ANODIZE							

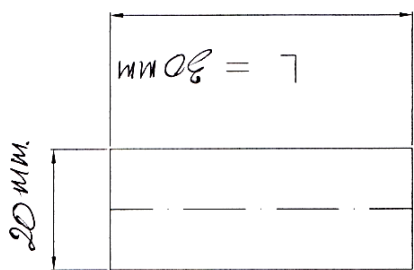
17/2016  
12

DATE

CHECKED BY: *[Signature]*

INSPECTED BY: *[Signature]*

SAMPLE NO: B  
 ILLUSTRATION:  
 scale



REMARKS: