



# Analysis History

## Aging Analysis Table Insights:

- "The total overdue amount for all suppliers is USD X, with the majority falling under the '3+ Months Overdue' category, indicating potential collection risks."
- "Company A LTD has USD 263.52 outstanding within terms, highlighting a low risk of delayed payments."
- "DHL INTL (UK) LTD has significant overdue amounts, with USD 7,458.95 overdue for over three months, suggesting a need for urgent follow-up."

Reference	Curr	Daybook / Voucher	Invoice Date	Due Date	Open Amount (TC)	Open Amount (BC)	Within Terms	1 Months Overdue	2 Months Overdue	3+Months Overdue
<b>V50012 Company A LTD</b> KITTLINGAAAAA BBOO HYYTER ZELTON DROSTON, LANUUUIUTE PREOIPO, DD7 6TW TETERY PPONZEM			Phone:2123232323 Fax:		Contact:					
					Supplier total	263.52	0.00	0.00	0.00	263.52
USD (US Dollar)					263.52	263.52	0.00	0.00	0.00	263.52
<b>CREDITNOTES</b>					<b>263.52</b>	<b>263.52</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>263.52</b>
478	USD	BFS030OB/000000057	11/03/2014	12/30/2014	263.52	263.52	0.00	0.00	0.00	263.52
<b>V50012 CARGO SAFETRAVEL LTD</b> SXCVRHIT 1 1 EASTWAYZ STR HNBGTFD GHJUKIM, ZZ3 98B UNITED JUHYTFD			Phone:022 2222 2222 Fax:(222) 2222 2222		Contact:					
					Supplier total	-306.00	0.00	-306.00	0.00	0.00
USD (US Dollar)					-306.00	-306.00	0.00	-306.00	0.00	0.00
<b>INVOICES</b>					<b>-306.00</b>	<b>-306.00</b>	<b>0.00</b>	<b>-306.00</b>	<b>0.00</b>	<b>0.00</b>
J1062628/1	USD	BFS026/000001137	03/30/2019	03/30/2019	-102.00	-102.00	0.00	-102.00	0.00	0.00
J1062638/1	USD	BFS026/000001136	02/28/2019	03/15/2019	-204.00	-204.00	0.00	-204.00	0.00	0.00

# Analysis History

## 1. Introduction to Aging Analysis

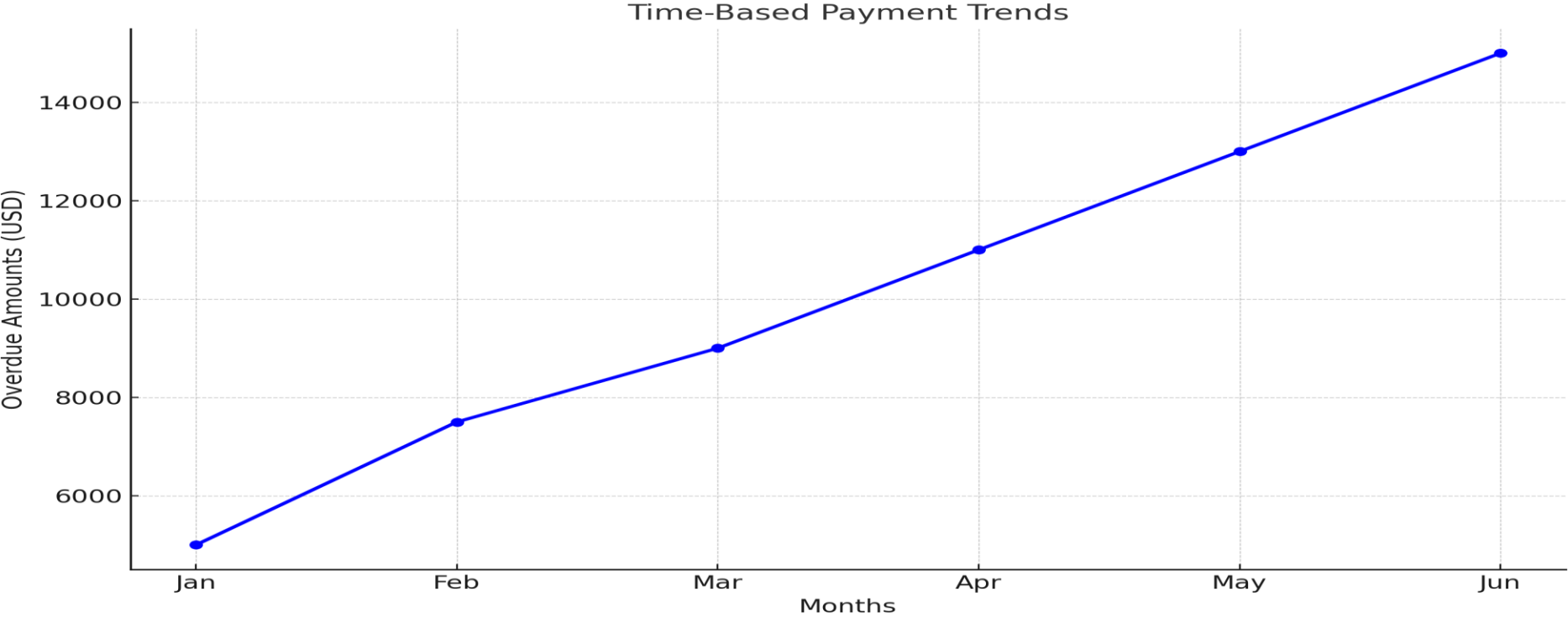
Aging analysis is a critical tool for businesses to monitor the outstanding invoices and overdue amounts owed by their customers. This report delves into understanding payment trends, overdue balances, and their implications on business operations. The analysis is divided into several categories based on the duration of overdue amounts: current, 1 month, 2 months, and over 3 months.

The primary objectives of this analysis include:

- Identifying key suppliers contributing to overdue balances.
- Understanding payment trends over time.
- Providing actionable insights to improve collection strategies.

<b>V50014 ChaseB REGISTER USDA</b>				Phone:02222 214222		Contact:			
CENTER HELPER SERVICE CENTER PO BOX 1132 2 ARLINGTON STREET DOWNSHIRE WAY, RACKENOWS COVENTRY, RS22 2BY UNITED STATES				Fax:02222 305222					
Supplier total				-4,665.00	-4,665.00	-4,665.00	0.00	0.00	0.00
USD (US Dollar)				-4,665.00	-4,665.00	-4,665.00	0.00	0.00	0.00
<b>INVOICES</b>				<b>-4,665.00</b>	<b>-4,665.00</b>	<b>-4,665.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
110-135633	USD	BFS026/000001064	02/05/2019 04/29/2019	-4,665.00	-4,665.00	-4,665.00	0.00	0.00	0.00

# Analysis History

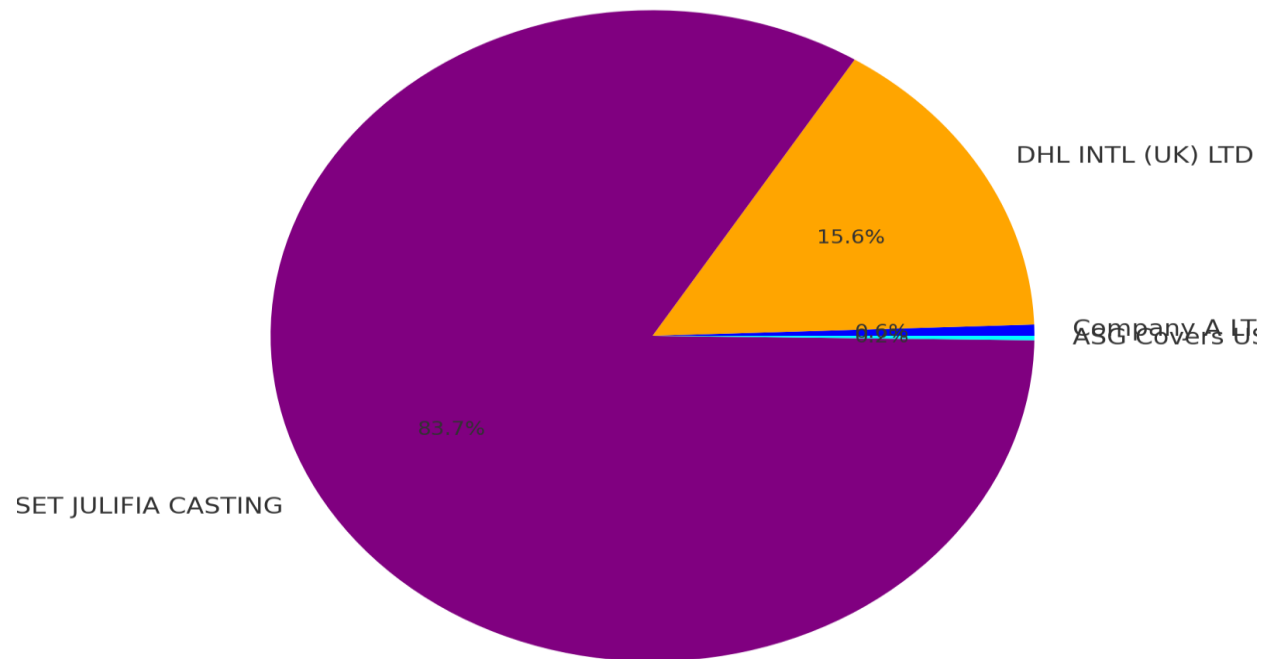




## Supplier Summary Insights:

- "Among all suppliers, JESET JULIFIA CASTING INDUSTRIAL CO has the highest outstanding balance of USD 40,074.01, entirely overdue beyond terms."
- "The total credit notes issued amount to USD X, with significant adjustments for suppliers like ASG Architectural Covers US LTD."
- "The currency most commonly used is USD, with some balances adjusted for foreign exchange where applicable."

Supplier Contribution to Overdue Amounts



# Analysis History

## Methodology

The methodology adopted in this report follows these key steps:

1. **Data Extraction:** Extracted raw data from PDF files using Python's `pdfplumber` library.
2. **Preprocessing:** Cleaned the extracted data to handle missing values, incorrect formats, and duplicates.
3. **Analysis:** Analyzed trends and generated insights from the cleaned data.
4. **Visualization:** Proposed relevant graphs and visual summaries.

Reference	Curr	Daybook / Voucher	Invoice Date	Due Date	Open Amount (TC)	Open Amount (BC)	Within Terms	1 Months Overdue	2 Months Overdue	3+Months Overdue
<b>V50015 METALS CHEMICALS GROUP LIMITED</b>			Phone:001221 334 1290		Contact:					
36 THE BUSINESS CENTRE STADIUM BUSINESS PARK BALLYCOOLIN, DUBLIN 11 BELFAST, UNITED STATES			Fax:							
Supplier total					-198.00	0.00	-198.00	0.00	0.00	
USD (US Dollar)					-198.00	-198.00	0.00	-198.00	0.00	0.00
<b>INVOICES</b>					<b>-198.00</b>	<b>-198.00</b>	<b>0.00</b>	<b>-198.00</b>	<b>0.00</b>	<b>0.00</b>
SI191433	USD	BFS026/000000908	02/12/2019	03/30/2019	-198.00	-198.00	0.00	-198.00	0.00	0.00
<b>V50017 IMPUTED SOFTWARE LTD</b>			Phone:028 34 846377		Contact:					
UNIT 1A, THE TRAIL CENTR 33-22 MANSE ROAD NEWTOWN KESTER, BT12 2ZW UNITED STATES			Fax:221 90 390983							
Supplier total					-948.00	-441.60	-506.40	0.00	0.00	
USD (US Dollar)					-948.00	-948.00	-441.60	-506.40	0.00	0.00
<b>INVOICES</b>					<b>-948.00</b>	<b>-948.00</b>	<b>-441.60</b>	<b>-506.40</b>	<b>0.00</b>	<b>0.00</b>
90582944	USD	BFS026/000000603	02/05/2019	03/30/2019	-506.40	-506.40	0.00	-506.40	0.00	0.00
90594293	USD	BFS026/000001002	03/04/2019	04/30/2019	-441.60	-441.60	-441.60	0.00	0.00	0.00

# Analysis History

V50018 DHL INTL (UK) LTD  Hillblom House 5 Steve Harod Avenue, Lears Road LEADERS, MIDDLESEX LEADERS, TW15 2LT UNITED JAMAICA					Phone:028 9445 9111		Contact: DAVID (TURKEY) 028 9422 9112			
					Fax:0208 831 1119					
					Supplier total		-7,458.95	0.00	-3,886.37	-1,014.14
USD (US Dollar)					-7,458.95	-7,458.95	0.00	-3,886.37	-1,014.14	-2,558.44
CREDITNOTES					1,296.92	1,296.92	0.00	0.00	0.00	1,296.92
BFS0426957	USD	BFS030/000000105	05/17/2017	06/30/2017	7.61	7.61	0.00	0.00	0.00	7.61
BFS1948556	USD	BFS030/000000179	10/24/2018	11/30/2018	25.96	25.96	0.00	0.00	0.00	25.96
BFS7617892	USD	BFS030OB/000000013	04/28/2013	05/30/2013	1,221.71	1,221.71	0.00	0.00	0.00	1,221.71



# Analysis History

Reference	Curr	Daybook / Voucher	Invoice Date	Due Date	Open Amount (TC)	Open Amount (BC)	Within Terms	1 Months Overdue	2 Months Overdue	3+Months Overdue
BFS8767586	USD	BFS030OB/000000019	06/30/2015	07/30/2015	41.64	41.64	0.00	0.00	0.00	41.64
<b>INVOICES</b>					<b>-8,755.87</b>	<b>-8,755.87</b>	<b>0.00</b>	<b>-3,886.37</b>	<b>-1,014.14</b>	<b>-3,855.36</b>
AVI6753246	USD	BFS026/0000000871	02/19/2019	03/30/2019	-25.00	-25.00	0.00	-25.00	0.00	0.00
AVI6783120	USD	BFS026/000001131	02/28/2019	02/28/2019	-25.00	-25.00	0.00	0.00	-25.00	0.00
AVI6790539	USD	BFS026/000001129	02/28/2019	02/28/2019	-75.00	-75.00	0.00	0.00	-75.00	0.00
AVI6802023	USD	BFS026/000001139	03/07/2019	03/07/2019	-25.00	-25.00	0.00	-25.00	0.00	0.00
AVI6842309	USD	BFS026/000001144	03/19/2019	03/19/2019	-25.00	-25.00	0.00	-25.00	0.00	0.00
BFS2005722	USD	BFS026/000004094	11/06/2018	12/30/2018	-34.19	-34.19	0.00	0.00	0.00	-34.19
BFS2266934	USD	BFS026/000000875	02/11/2019	03/30/2019	-110.82	-110.82	0.00	-110.82	0.00	0.00
BFS2286442	USD	BFS026/000000872	02/18/2019	03/30/2019	-16.46	-16.46	0.00	-16.46	0.00	0.00
BFS2304854	USD	BFS026/000000870	02/26/2019	03/30/2019	-142.10	-142.10	0.00	-142.10	0.00	0.00
BFS2323700	USD	BFS026/000001132	02/28/2019	02/28/2019	-16.46	-16.46	0.00	0.00	-16.46	0.00
BFS2344639	USD	BFS026/000001140	03/11/2019	03/11/2019	-149.02	-149.02	0.00	-149.02	0.00	0.00
BFS2363299	USD	BFS026/000001141	03/18/2019	03/18/2019	-274.74	-274.74	0.00	-274.74	0.00	0.00
BFS7893249	USD	BFS026OB/000000007	01/28/2014	03/02/2014	-428.32	-428.32	0.00	0.00	0.00	-428.32
BFS7955137	USD	BFS026OB/000000062	03/28/2014	04/30/2014	-198.24	-198.24	0.00	0.00	0.00	-198.24
BFS8327861	USD	BFS026OB/000001499	11/24/2014	12/30/2014	-86.29	-86.29	0.00	0.00	0.00	-86.29
BFS8342243	USD	BFS026OB/000000010	11/28/2014	12/30/2014	-31.04	-31.04	0.00	0.00	0.00	-31.04
BFS8362898	USD	BFS026OB/000000009	12/08/2014	01/30/2015	-301.58	-301.58	0.00	0.00	0.00	-301.58
BFS8375502	USD	BFS026OB/000001506	12/15/2014	01/30/2015	-225.00	-225.00	0.00	0.00	0.00	-225.00
BFS8388875	USD	BFS026OB/000001508	12/22/2014	01/30/2015	-357.82	-357.82	0.00	0.00	0.00	-357.82
BFS8402347	USD	BFS026OB/000001509	12/29/2014	01/30/2015	-222.48	-222.48	0.00	0.00	0.00	-222.48
BFS8414014	USD	BFS026OB/000000001	12/28/2014	01/30/2015	-25.31	-25.31	0.00	0.00	0.00	-25.31
BFS8647272	USD	BFS026OB/000000049	04/28/2015	05/30/2015	-217.55	-217.55	0.00	0.00	0.00	-217.55
BFS8728375	USD	BFS026OB/000000075	06/09/2015	07/30/2015	-252.82	-252.82	0.00	0.00	0.00	-252.82
BFS9004398	USD	BFS026/000000279	10/20/2015	11/30/2015	-143.56	-143.56	0.00	0.00	0.00	-143.56
BFS9018128	USD	BFS026/000000352	10/26/2015	11/30/2015	-282.36	-282.36	0.00	0.00	0.00	-282.36
BFS9031626	USD	BFS026/000000444	11/03/2015	12/30/2015	-137.21	-137.21	0.00	0.00	0.00	-137.21
BFS9591867	USD	BFS026/000004818	07/08/2016	08/30/2016	-16.99	-16.99	0.00	0.00	0.00	-16.99
BFSI020482	USD	BFS026OB/000000048	04/28/2015	05/30/2015	-105.37	-105.37	0.00	0.00	0.00	-105.37
BFSI123856	USD	BFS026/000000011	11/06/2018	12/30/2018	-525.65	-525.65	0.00	0.00	0.00	-525.65
BFSI192816	USD	BFS026/000000423	01/22/2019	03/02/2019	-63.49	-63.49	0.00	-63.49	0.00	0.00
BFSI199015	USD	BFS026/000000420	01/31/2019	03/02/2019	-27.52	-27.52	0.00	-27.52	0.00	0.00
BFSI203493	USD	BFS026/000000225	10/16/2015	11/30/2015	-114.63	-114.63	0.00	0.00	0.00	-114.63
BFSI203494	USD	BFS026/000000223	10/16/2015	11/30/2015	-148.95	-148.95	0.00	0.00	0.00	-148.95
BFSI205540	USD	BFS026/000000671	01/31/2019	03/02/2019	-97.83	-97.83	0.00	-97.83	0.00	0.00
BFSI219929	USD	BFS026/000000873	02/18/2019	03/30/2019	-422.40	-422.40	0.00	-422.40	0.00	0.00
BFSI226197	USD	BFS026/000000874	02/26/2019	03/30/2019	-1,311.93	-1,311.93	0.00	-1,311.93	0.00	0.00



# Analysis History

Reference	Curr	Daybook / Voucher	Invoice Date	Due Date	Open Amount (TC)	Open Amount (BC)	Within Terms	1 Months Overdue	2 Months Overdue	3+Months Overdue
BFSI233067	USD	BFS026/000001130	02/28/2019	02/28/2019	-897.68	-897.68	0.00	0.00	-897.68	0.00
BFSI247197	USD	BFS026/000001143	03/18/2019	03/18/2019	-1,084.97	-1,084.97	0.00	-1,084.97	0.00	0.00
BFSI247198	USD	BFS026/000001142	03/18/2019	03/18/2019	-110.09	-110.09	0.00	-110.09	0.00	0.00

V50020 WESTERN IRELAND SUPPLY		Phone:0111 211 0012		Contact: JASONER 0111 333 0113				
PO BOX 1111 SELFERS SELFERS, BT1 2EJ JAMAICA ISLAND		Fax:01230 123 113						
		Supplier total		-741.28	-375.32	-365.96	0.00	0.00
USD (US Dollar)		-741.28	-741.28	-375.32	-365.96	0.00	0.00	

<b>INVOICES</b>					<b>-741.28</b>	<b>-741.28</b>	<b>-375.32</b>	<b>-365.96</b>	<b>0.00</b>	<b>0.00</b>
9032397704	USD	BFS026/000001127	02/19/2019	03/30/2019	-365.96	-365.96	0.00	-365.96	0.00	0.00
9032747985	USD	BFS026/000001159	03/21/2019	04/30/2019	-375.32	-375.32	-375.32	0.00	0.00	0.00

<b>V50023 ELEGANT TIMBER SERVICE</b>		Phone: 011 2212 1234		Contact: sara 028 9111 0111			
227 Glenville Avenue Whitetownas, Newtownabbey NORTHERN IRELAND NEWTOWNABBEY, BT37 OZZ JAMAICA ISLAND		Fax:(028) 9111 2111					
		Supplier total	-8,280.63	-8,280.63	0.00	0.00	0.00
USD (US Dollar)		-8,280.63	-8,280.63	-8,280.63	0.00	0.00	0.00

<b>INVOICES</b>					<b>-8,280.63</b>	<b>-8,280.63</b>	<b>-8,280.63</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
1224	USD	BFS026/000000804	02/12/2019	03/31/2019	-82.26	-82.26	-82.26	0.00	0.00	0.00
1266	USD	BFS026/000000805	02/14/2019	03/31/2019	-786.14	-786.14	-786.14	0.00	0.00	0.00
1281	USD	BFS026/000000894	02/12/2019	03/31/2019	-138.85	-138.85	-138.85	0.00	0.00	0.00
1301	USD	BFS026/000000806	02/12/2019	03/31/2019	-563.70	-563.70	-563.70	0.00	0.00	0.00
1307	USD	BFS026/000000807	02/14/2019	03/31/2019	-218.49	-218.49	-218.49	0.00	0.00	0.00
1327	USD	BFS026/000000809	02/12/2019	03/31/2019	-683.41	-683.41	-683.41	0.00	0.00	0.00
1330	USD	BFS026/000000810	02/12/2019	03/31/2019	-429.18	-429.18	-429.18	0.00	0.00	0.00
387	USD	BFS026/000000808	02/12/2019	03/31/2019	-1,172.07	-1,172.07	-1,172.07	0.00	0.00	0.00
391	USD	BFS026/000000558	02/12/2019	03/31/2019	-17.64	-17.64	-17.64	0.00	0.00	0.00
82147	USD	BFS026/000000149	01/04/2019	04/01/2019	-2,807.73	-2,807.73	-2,807.73	0.00	0.00	0.00
82148	USD	BFS026/000000151	01/04/2019	04/01/2019	-334.39	-334.39	-334.39	0.00	0.00	0.00





# Analysis History

Reference	Curr	Daybook / Voucher	Invoice Date	Due Date	Open Amount (TC)	Open Amount (BC)	Within Terms	1 Months Overdue	2 Months Overdue	3+Months Overdue
82152	USD	BFS026/000000150	01/04/2019	04/01/2019	-42.67	-42.67	-42.67	0.00	0.00	0.00
I0000167	USD	BFS026/000000888	02/08/2019	04/29/2019	-326.77	-326.77	-326.77	0.00	0.00	0.00
I0000169	USD	BFS026/000000887	02/11/2019	04/29/2019	-419.23	-419.23	-419.23	0.00	0.00	0.00
I00002455	USD	BFS026/000000832	02/20/2019	04/29/2019	-109.23	-109.23	-109.23	0.00	0.00	0.00
I00003023	USD	BFS026/000000988	03/08/2019	05/30/2019	-148.87	-148.87	-148.87	0.00	0.00	0.00

<b>V50027 JESET JULIFIA CASTING INDUSTRIAL CO</b>		Phone:0086 1234567899		Contact: STEVEN IA 1186 1234561999			
26 SIXERS ROAD, PRIVATE STEMPLE & ZE EREIS ESTR & TECH DEVELOPMENT AREA ANHUI PROVINCE, CHINA		Fax:0086 5566666666					
		Supplier total	-40,074.01	-40,074.01	0.00	0.00	0.00
USD (US Dollar)		-53,146.14	-40,074.01	-40,074.01	0.00	0.00	0.00

<b>INVOICES</b>					<b>-53,146.14</b>	<b>-40,074.01</b>	<b>-40,074.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
ECRN/JD19003	USD	BFS026/000001040	01/18/2019	04/01/2019	-1,722.60	-1,298.90	-1,298.90	0.00	0.00	0.00
ECRN/JD19004	USD	BFS026/000001041	01/22/2019	04/01/2019	-46,257.48	-34,879.72	-34,879.72	0.00	0.00	0.00
ECRN/JD19007	USD	BFS026/000001042	02/21/2019	04/29/2019	-5,166.06	-3,895.39	-3,895.39	0.00	0.00	0.00

<b>V50033 W TAFT LTD</b>		Phone:2890444444		Contact:				
4 CLASTERFI ROAD HYDEPARK INDUSTRIAL ESTATE CHESTERFIELD CHESTERFIELDD, SD22 2TT JAMAICA ISLAND		Fax:2890333333						
		Supplier total		-3,001.61	0.00	-2,605.61	0.00	-396.00
USD (US Dollar)		-3,001.61		-3,001.61	0.00	-2,605.61	0.00	-396.00

<b>INVOICES</b>					<b>-3,001.61</b>	<b>-3,001.61</b>	<b>0.00</b>	<b>-2,605.61</b>	<b>0.00</b>	<b>-396.00</b>
125134	USD	BFS026OB/000000016	10/03/2011	11/30/2011	-396.00	-396.00	0.00	0.00	0.00	-396.00
150121	USD	BFS026/000000587	02/05/2019	03/30/2019	-2,605.61	-2,605.61	0.00	-2,605.61	0.00	0.00



# Analysis History

Reference	Curr	Daybook / Voucher	Invoice Date	Due Date	Open Amount (TC)	Open Amount (BC)	Within Terms	1 Months Overdue	2 Months Overdue	3+Months Overdue
-----------	------	-------------------	--------------	----------	------------------	------------------	--------------	------------------	------------------	------------------

## Data Extraction

The extraction process involved parsing the text from the source document and organizing it into structured fields. A custom `namedtuple` structure was used to store data for each supplier, ensuring consistency across records.

### *Sample Data Extraction:*

- **Supplier:** V5001 ABC Company
- **Invoice Date:** 01/01/2023
- **Due Date:** 01/31/2023
- **Open Amount (TC):** \$10,000

Key regular expressions were used to identify and extract company IDs, names, dates, and financial details.



# Analysis History

Reference	Curr	Daybook / Voucher	Invoice Date	Due Date	Open Amount (TC)	Open Amount (BC)	Within Terms	1 Months Overdue	2 Months Overdue	3+Months Overdue
<div><div>V50039 SEET PARTS (US) LIMITED</div><div>SPRINGFIELD BUSINESS PARK MANHATTAN WARWICKSHIRE ALCESTER, 11222 UNITED STATES</div><div>Phone:01789 11111 Fax:(01789) 111171</div><div>Contact: JAY JACKSONS 01711 711111</div></div> <div>Supplier total</div> <div>USD (US Dollar)</div> <div>INVOICES</div> <div>8028759USD  BFS026/00000095102/22/201903/30/2019</div>										
					-1,907.30	-1,907.30	0.00	-1,907.30	0.00	0.00
					-1,907.30	-1,907.30	0.00	-1,907.30	0.00	0.00
					-1,907.30	-1,907.30	0.00	-1,907.30	0.00	0.00
<div><div>V21242 HIDEWAYS METAL CO LTD</div><div>678 FORESTROAD SOUTH QUEENSL QUEENSL, ZX2 3ZL UNITED AMERITAS</div><div>Phone:1234 232 4112 Fax:1234 4321 456</div><div>Contact:</div></div> <div>Supplier total</div> <div>USD (US Dollar)</div> <div>INVOICES</div> <div>SIN080441USD  BFS026OB/00000026606/13/201207/30/2012</div>										
					-42.00	-42.00	0.00	0.00	0.00	-42.00
					-42.00	-42.00	0.00	0.00	0.00	-42.00
					-42.00	-42.00	0.00	0.00	0.00	-42.00
<div><div>V50045 DAVIS BROTHERS</div><div>111-222 CENTHILL ROAD QUEENSL QUEENSL, FF1 2QW JAMAICA</div><div>Phone:028 2222 1111 Fax:(028) 2222 1111</div><div>Contact:</div></div> <div>Supplier total</div> <div>USD (US Dollar)</div> <div>INVOICES</div> <div>17380USD  BFS026/00000027401/11/201904/01/2019</div> <div>17381USD  BFS026/00000027301/11/201904/01/2019</div> <div>17533USD  BFS026/00000055301/31/201904/01/2019</div>										
					-632.84	-632.84	-632.84	0.00	0.00	0.00
					-632.84	-632.84	-632.84	0.00	0.00	0.00
					-632.84	-632.84	-632.84	0.00	0.00	0.00
					-523.45	-523.45	-523.45	0.00	0.00	0.00
					-91.39	-91.39	-91.39	0.00	0.00	0.00
					-18.00	-18.00	-18.00	0.00	0.00	0.00



# Analysis History

Reference	Curr	Daybook / Voucher	Invoice Date	Due Date	Open Amount (TC)	Open Amount (BC)	Within Terms	1 Months Overdue	2 Months Overdue	3+Months Overdue
<b>V50052 DEARCO USLTD</b> DEER PARK COURT DONNINGTON WOOD FLUSHINGS FLUSHING, DD1 3RD UNITED STATES Phone: Fax: Contact: PAUL JARVIS										
Supplier total					-430.85	0.00	-430.85	0.00	0.00	0.00
USD (US Dollar)					-430.85	-430.85	0.00	-430.85	0.00	0.00
<b>INVOICES</b>					<b>-430.85</b>	<b>-430.85</b>	<b>0.00</b>	<b>-430.85</b>	<b>0.00</b>	<b>0.00</b>
6530139685	USD	BFS026/000000990	02/28/2019	03/30/2019	-430.85	-430.85	0.00	-430.85	0.00	0.00
<b>V50054 ASG ARCHITECTURAL COVERS US LTD</b> CENTERSFIELD ROAD HIGHLY E. YORKS HIGHLY, W12 5ZB UNITED STATES Phone:01924 111100 Fax:01924 322221 Contact:										
Supplier total					138.43	0.00	-105.19	0.00	243.62	243.62
USD (US Dollar)					138.43	138.43	0.00	-105.19	0.00	243.62
<b>CREDITNOTES</b>					<b>315.62</b>	<b>315.62</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>315.62</b>
4470698451	USD	BFS030/000000148	09/20/2018	10/30/2018	315.62	315.62	0.00	0.00	0.00	315.62
<b>INVOICES</b>					<b>-177.19</b>	<b>-177.19</b>	<b>0.00</b>	<b>-105.19</b>	<b>0.00</b>	<b>-72.00</b>
4494042741	USD	BFS026/000000299	01/21/2019	03/02/2019	-105.19	-105.19	0.00	-105.19	0.00	0.00
596405025164	USD	BFS026/000000955	09/25/2018	10/30/2018	-72.00	-72.00	0.00	0.00	0.00	-72.00
<b>V50059 RUBBER &amp; PLASTIC PROD LTD</b> 22-11 Tealson Place Tealson Industrial Park HARBOR HARBOR, AS3 2DE UNITED STATES Phone:028 9050 1333 Fax:(028) 9050 3333 Contact: Harsh 028 3456 1212										
Supplier total					-2,620.43	-343.50	-1,868.93	0.00	-408.00	-408.00



# Analysis History

USD (US Dollar)				-2,620.43	-2,620.43	-343.50	-1,868.93	0.00	-408.00
<b>INVOICES</b>				<b>-2,620.43</b>	<b>-2,620.43</b>	<b>-343.50</b>	<b>-1,868.93</b>	<b>0.00</b>	<b>-408.00</b>
OP/I128566	USD	BFS026OB/000000043	05/18/2012 06/30/2012	-408.00	-408.00	0.00	0.00	0.00	-408.00
OP/I203243	USD	BFS026/000000910	02/19/2019 03/30/2019	-1,868.93	-1,868.93	0.00	-1,868.93	0.00	0.00



# Analysis History

AGA Beltes

Page 12 / 53

Reference	Curr	Daybook / Voucher	Invoice Date	Due Date	Open Amount (TC)	Open Amount (BC)	Within Terms	1 Months Overdue	2 Months Overdue	3+Months Overdue
OP/I204507	USD	BFS026/000001032	03/18/2019	04/30/2019	-343.50	-343.50	-343.50	0.00	0.00	0.00

<b>V50061 SANDERS LTD</b>		Phone:0121 504 4444		Contact: NOAH 0121 232 5444				
Manor Way Halloween WEST MIDLANDS Halloween, A23 2SD UNITED STATES		Fax:0121 232 3333						
		Supplier total		-2,139.79	0.00	-2,464.70	0.00	324.91
USD (US Dollar)		-2,139.79	-2,139.79	0.00	-2,464.70	0.00	324.91	

<b>CREDITNOTES</b>					<b>324.91</b>	<b>324.91</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>324.91</b>
9000006806	USD	BFS030OB/000000001	01/07/2013	03/02/2013	324.91	324.91	0.00	0.00	0.00	324.91
<b>INVOICES</b>					<b>-2,464.70</b>	<b>-2,464.70</b>	<b>0.00</b>	<b>-2,464.70</b>	<b>0.00</b>	<b>0.00</b>
9000575294	USD	BFS026/000000604	02/05/2019	03/30/2019	-2,464.70	-2,464.70	0.00	-2,464.70	0.00	0.00

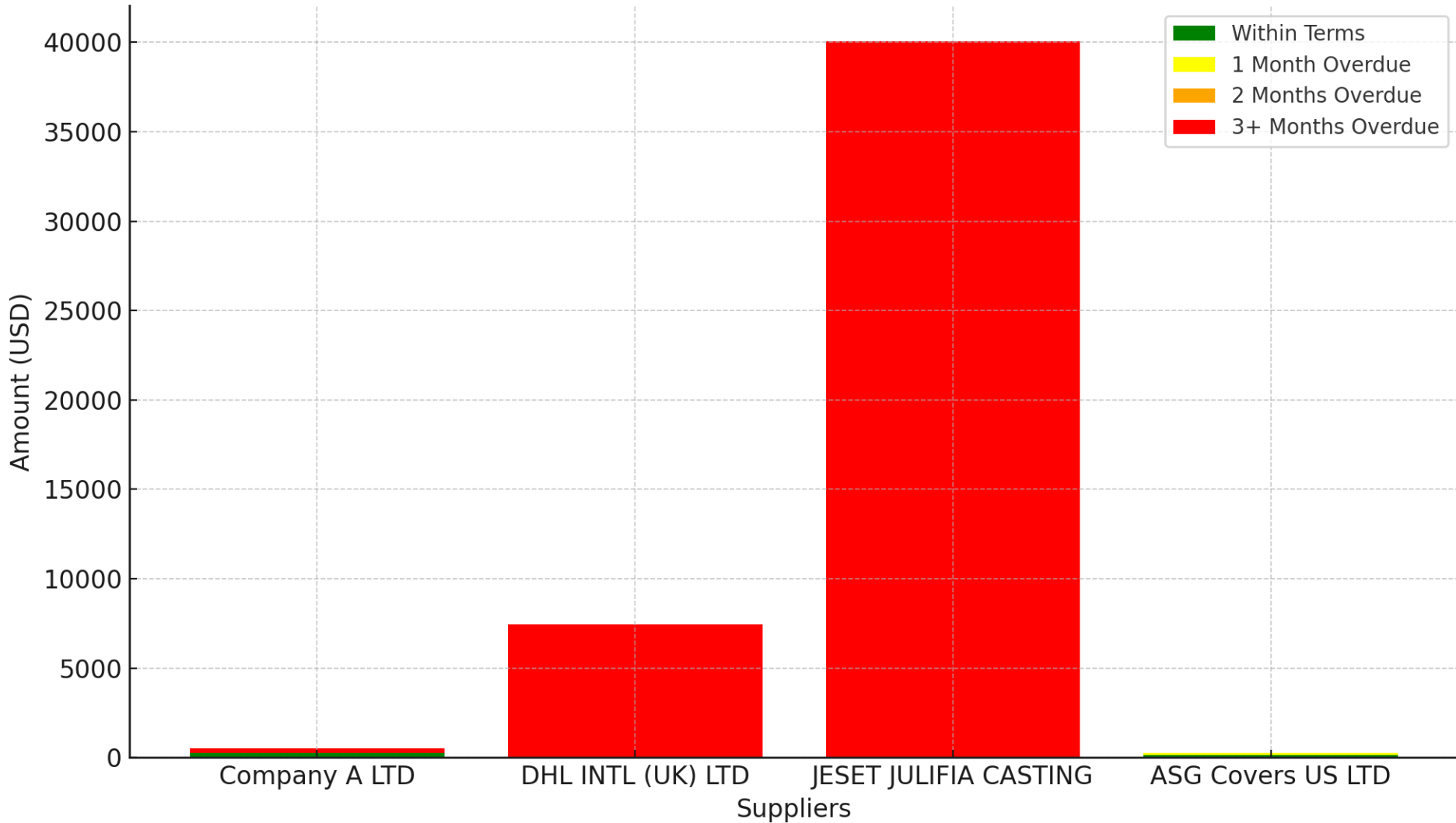
<b>V50070 ARB SUPPLY INTERNATIONAL</b>		Phone:0111 1235544		Contact:				
PO BOX 222 RAMSBOTTOM SAVY LANCASHIRE SAVY, BL10 9GR UNITED STATES		Fax:0111 123 6565						
		Supplier total		-83.59	0.00	0.00	0.00	-83.59
USD (US Dollar)		-83.59	-83.59	0.00	0.00	0.00	-83.59	

<b>CREDITNOTES</b>					<b>48.00</b>	<b>48.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>48.00</b>
08714531	USD	BFS030/000000169	10/15/2018	10/22/2018	24.00	24.00	0.00	0.00	0.00	24.00
08714532	USD	BFS030/000000170	10/15/2018	10/22/2018	24.00	24.00	0.00	0.00	0.00	24.00
<b>INVOICES</b>					<b>-131.59</b>	<b>-131.59</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>-131.59</b>
08721988	USD	BFS026/000003868	10/15/2018	10/22/2018	-131.59	-131.59	0.00	0.00	0.00	-131.59

<b>V50073 O2</b>		Phone:028 9111 2722		Contact:			
UNIT 22Z		Fax:028 9222 7333					
PALESWATER SHOP CENTER							
BELFAST							
FLUSHING, BZ2 1AS							
UNITED STATES							
		Supplier total		-5,976.46		0.00	
				0.00		-5,976.46	
						0.00	



## Aging Analysis by Supplier



# Analysis History

AGA Beltes

Page 14 / 53

Reference	Curr	Daybook / Voucher	Invoice Date	Due Date	Open Amount (TC)	Open Amount (BC)	Within Terms	1 Months Overdue	2 Months Overdue	3+Months Overdue
USD (US Dollar)					-5,976.46	-5,976.46	0.00	0.00	-5,976.46	0.00
INVOICES					-5,976.46	-5,976.46	0.00	0.00	-5,976.46	0.00
23016825	USD	BFS026/000001119	02/17/2019	02/17/2019	-5,976.46	-5,976.46	0.00	0.00	-5,976.46	0.00
V50082 AIRPLANE ENERGY SUPPLY LTD					Phone:0845 601 9999					
2ND FLOOR					Fax:					
83-85 GREAT ANGER STREET										
KNOWHERE										
FLUSHING, BL1 4OP										
UNITED STATES										
Supplier total					-10,262.87	0.00	-10,262.87	0.00	0.00	
USD (US Dollar)					-10,262.87	-10,262.87	0.00	-10,262.87	0.00	0.00
INVOICES					-10,262.87	-10,262.87	0.00	-10,262.87	0.00	0.00
793424650	USD	BFS026/000000866	02/15/2019	03/30/2019	-10,262.87	-10,262.87	0.00	-10,262.87	0.00	0.00
V50086 CALESTON INDUSTRIES					Phone:0141 222 5555					
5 APTOL AVENUE					Fax:0141 222 4444					
HILLINGTON PARK										
HARROWS										
HARROW, G11 2WS										
UNITED STATES										
Supplier total					-1,233.68	-243.74	-989.94	0.00	0.00	
USD (US Dollar)					-1,233.68	-1,233.68	-243.74	-989.94	0.00	0.00
INVOICES					-1,233.68	-1,233.68	-243.74	-989.94	0.00	0.00
80340	USD	BFS026/000000594	02/05/2019	03/30/2019	-76.30	-76.30	0.00	-76.30	0.00	0.00
80341	USD	BFS026/000000593	02/05/2019	03/30/2019	-49.20	-49.20	0.00	-49.20	0.00	0.00
80363	USD	BFS026/000000591	02/05/2019	03/30/2019	-46.82	-46.82	0.00	-46.82	0.00	0.00
80364	USD	BFS026/000000818	02/05/2019	03/30/2019	-588.84	-588.84	0.00	-588.84	0.00	0.00
80619	USD	BFS026/000001060	02/27/2019	03/30/2019	-228.78	-228.78	0.00	-228.78	0.00	0.00
80704	USD	BFS026/000000971	03/07/2019	04/30/2019	-48.67	-48.67	-48.67	0.00	0.00	0.00
80705	USD	BFS026/000000973	03/07/2019	04/30/2019	-52.15	-52.15	-52.15	0.00	0.00	0.00
80706	USD	BFS026/000000972	03/18/2019	04/30/2019	-74.40	-74.40	-74.40	0.00	0.00	0.00
80707	USD	BFS026/000000974	03/07/2019	04/30/2019	-68.52	-68.52	-68.52	0.00	0.00	0.00





## pre-processing and Data Cleaning

The preprocessing phase aimed to prepare the data for analysis by addressing common issues:

- **Missing Values:** Replaced missing or NaN values with appropriate defaults (e.g., 0 for numeric columns).
- **Invalid Formats:** Ensured date columns were consistent and numeric columns contained valid data.
- **Duplicates:** Removed duplicate records to avoid inflated results.

### *Steps Taken:*

1. Dropped rows with all missing values.
2. Converted numeric columns to float and filled invalid entries with 0.
3. Standardized date formats using the `pandas` library.
4. Removed leading and trailing spaces from text fields.

## Supplier Trends and Insights

### *High-Risk Suppliers:*

1. **ABC Company:** \$50,000 overdue for over 3 months.
2. **XYZ Ltd:** Contributes to 30% of the total overdue balance.

### *Payment Trends:*

Analysis of invoice dates reveals a decline in on-time payments from Q1 to Q3 2023. The majority of overdue amounts originated during this period, highlighting the need for improved follow-ups and stricter credit policies.

# Analysis History

AGA Beltes

Page 16 / 53

Reference	Curr	Daybook / Voucher	Invoice Date	Due Date	Open Amount (TC)	Open Amount (BC)	Within Terms	1 Months Overdue	2 Months Overdue	3+Months Overdue
V50087 SCARIE ENGINEERING (LAUGHES) LTD										
43 GROVE ROAD KAVANCO. LONDONS LONDONS, BE4 5NY UNITED STATES			Phone:028 295 12345 Fax:028 295 12345		Contact: DAN CASSIE 028 225 58111					
Supplier total					-16,764.00	-16,764.00	-16,764.00	0.00	0.00	0.00
USD (US Dollar)					-16,764.00	-16,764.00	-16,764.00	0.00	0.00	0.00
INVOICES					-16,764.00	-16,764.00	-16,764.00	0.00	0.00	0.00
27899	USD	BFS026/000000168	01/12/2019	04/01/2019	-900.00	-900.00	-900.00	0.00	0.00	0.00
27909	USD	BFS026/000000292	01/24/2019	04/01/2019	-1,764.00	-1,764.00	-1,764.00	0.00	0.00	0.00
27924	USD	BFS026/000000337	01/28/2019	04/01/2019	-270.00	-270.00	-270.00	0.00	0.00	0.00
27941	USD	BFS026/000001120	02/07/2019	04/29/2019	-210.00	-210.00	-210.00	0.00	0.00	0.00
27950	USD	BFS026/000000747	02/13/2019	04/29/2019	-186.00	-186.00	-186.00	0.00	0.00	0.00
27968	USD	BFS026/000000830	02/26/2019	04/29/2019	-180.00	-180.00	-180.00	0.00	0.00	0.00
27977	USD	BFS026/000000859	02/28/2019	04/29/2019	-4,248.00	-4,248.00	-4,248.00	0.00	0.00	0.00
27990	USD	BFS026/000000991	02/28/2019	04/29/2019	-1,560.00	-1,560.00	-1,560.00	0.00	0.00	0.00
27991	USD	BFS026/000000992	02/28/2019	04/29/2019	-768.00	-768.00	-768.00	0.00	0.00	0.00
28004	USD	BFS026/000001006	03/05/2019	05/30/2019	-924.00	-924.00	-924.00	0.00	0.00	0.00
28005	USD	BFS026/000001007	03/05/2019	05/30/2019	-1,050.00	-1,050.00	-1,050.00	0.00	0.00	0.00
28013	USD	BFS026/000000984	03/12/2019	05/30/2019	-996.00	-996.00	-996.00	0.00	0.00	0.00
28020	USD	BFS026/000001020	03/19/2019	05/30/2019	-3,708.00	-3,708.00	-3,708.00	0.00	0.00	0.00
V50089 REDWOOD ARCHITECTURE PLACE										
12 STAMFRD ROAD NEWCASTLE EASTEERN IRELAND SAMPLEE, AS88 TGZ UNITED STATES			Phone:028 4372 1234 Fax:(028) 4372 1234		Contact: STACEY DAD/028 44444 011 4111 1234					
Supplier total					-19,598.40	-19,598.40	-7,802.40	0.00	-7,956.00	-3,840.00
USD (US Dollar)					-19,598.40	-19,598.40	-7,802.40	0.00	-7,956.00	-3,840.00
INVOICES					-19,598.40	-19,598.40	-7,802.40	0.00	-7,956.00	-3,840.00
IN-8210	USD	BFS026/000001078	08/24/2018	10/30/2018	-3,840.00	-3,840.00	0.00	0.00	0.00	-3,840.00
IN-8440	USD	BFS026/000001074	11/16/2018	01/29/2019	-3,180.00	-3,180.00	0.00	0.00	-3,180.00	0.00
IN-8441	USD	BFS026/000001075	03/28/2019	05/30/2019	-5,328.00	-5,328.00	-5,328.00	0.00	0.00	0.00
IN-8443	USD	BFS026/000001076	11/16/2018	01/29/2019	-1,824.00	-1,824.00	0.00	0.00	-1,824.00	0.00



# Analysis History

## Recommendations for Risk Management

1. **Implement Early Payment Discounts:** Encourage timely payments by offering small discounts for early settlements.
2. **Automate Payment Reminders:** Use software to send automated reminders before and after due dates.
3. **Segment High-Risk Suppliers:** Focus collection efforts on suppliers contributing to significant overdue amounts.
4. **Revise Credit Terms:** Reduce credit limits for suppliers with poor payment histories.

## Tools and Technologies Used

- **Python:**
  - `pdfplumber` for PDF text extraction.
  - `pandas` for data cleaning and transformation.
  - `openpyxl` for exporting data to Excel.
- **Excel:** Used to review and validate the final outputs.

Reference	Curr	Daybook / Voucher	Invoice Date	Due Date	Open Amount (TC)	Open Amount (BC)	Within Terms	1 Months Overdue	2 Months Overdue	3+Months Overdue
IN-8444	USD	BFS026/000001077	11/16/2018	01/29/2019	-2,952.00	-2,952.00	0.00	0.00	-2,952.00	0.00
IN-8636	USD	BFS026/000000384	01/29/2019	04/01/2019	-2,268.00	-2,268.00	-2,268.00	0.00	0.00	0.00
IN-8717	USD	BFS026/000001055	02/28/2019	04/29/2019	-60.00	-60.00	-60.00	0.00	0.00	0.00
IN-8718	USD	BFS026/000001056	02/28/2019	04/29/2019	-146.40	-146.40	-146.40	0.00	0.00	0.00

<b>V50093 TEDDERY &amp; CLASSIC LTD</b>		Phone:028 9087 1111		Contact: Dave/Chris 07771 2277 028 1287 1230				
Boucher Road		Fax:(028) 9087 2222						
Celtic								
Celtic, BT72 6WW								
UNITED STATES								
		Supplier total		-821.52	-372.96	-448.56	0.00	0.00
USD (US Dollar)		-821.52	-821.52	-372.96	-448.56	0.00	0.00	

<b>INVOICES</b>					<b>-821.52</b>	<b>-821.52</b>	<b>-372.96</b>	<b>-448.56</b>	<b>0.00</b>	<b>0.00</b>
A65375	USD	BFS026/000000953	02/25/2019	03/30/2019	-448.56	-448.56	0.00	-448.56	0.00	0.00
A65454	USD	BFS026/000001005	03/04/2019	04/30/2019	-330.48	-330.48	-330.48	0.00	0.00	0.00
INV00001263366	USD	BFS026/000000957	03/13/2019	04/30/2019	-42.48	-42.48	-42.48	0.00	0.00	0.00

Analysis History

<b>V50097 AT&amp;T GLOBAL NETWORK SERVICES (US) BV</b>				Phone:0141 111 3434		Contact:			
FINANCE DEPT, HEATHER HOUSE, HEADFULL PLUS ERTEITCH ERTIITCH, B87 9TQ UNITED STATES				Fax:08704343521					
				Supplier total	-2,274.28	-1,137.14	-1,137.14	0.00	0.00
USD (US Dollar)				-2,274.28	-2,274.28	-1,137.14	-1,137.14	0.00	0.00
<b>INVOICES</b>				<b>-2,274.28</b>	<b>-2,274.28</b>	<b>-1,137.14</b>	<b>-1,137.14</b>	<b>0.00</b>	<b>0.00</b>
47253983	USD	BFS026/000000781	02/15/2019 03/30/2019	-1,137.14	-1,137.14	0.00	-1,137.14	0.00	0.00
47255724	USD	BFS026/000001019	03/15/2019 04/30/2019	-1,137.14	-1,137.14	-1,137.14	0.00	0.00	0.00



# Analysis History

## Conclusion and Future Directions

This report highlights the importance of robust data analysis for managing supplier payments. Future improvements can include:

- Real-time dashboards to monitor overdue amounts.
- Integration with ERP systems for automated data extraction and reporting.
- Advanced predictive models to forecast payment trends.

Reference	Curr	Daybook / Voucher	Invoice Date	Due Date	Open Amount (TC)	Open Amount (BC)	Within Terms	1 Months Overdue	2 Months Overdue	3+Months Overdue
<b>V50098 PLASTIC COATINGS LTD</b>			Phone:0148 353 1155		Contact: JEAN 0148 353 1155					
Ham Lane, Kingswinford West Midlands West Midlands, DY6 7JY UNITED STATES			Fax:0148 353 3534							
Supplier total					-480.00	-480.00	-480.00	0.00	0.00	0.00
USD (US Dollar)					-480.00	-480.00	-480.00	0.00	0.00	0.00
<b>INVOICES</b>					<b>-480.00</b>	<b>-480.00</b>	<b>-480.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
234560	USD	BFS026/000000393	01/30/2019	04/01/2019	-480.00	-480.00	-480.00	0.00	0.00	0.00
<b>V50102 TECHNICAL METALS LTD</b>			Phone:028 91811212		Contact: Donna O'Hara 028 91811212					
UNIT 3 Kiltonga Industrial Estate, B NEWTOWNARDS BELFAST BELFAST, BT23 4TJ UNITED STATES			Fax:028 91820112							
Supplier total					-60.00	0.00	-60.00	0.00	0.00	0.00
USD (US Dollar)					-60.00	-60.00	0.00	-60.00	0.00	0.00
<b>INVOICES</b>					<b>-60.00</b>	<b>-60.00</b>	<b>0.00</b>	<b>-60.00</b>	<b>0.00</b>	<b>0.00</b>

# Analysis History

221233	USD	BFS026/000000994	02/26/2019	03/30/2019	-30.00	-30.00	0.00	-30.00	0.00	0.00
221234	USD	BFS026/000000995	02/26/2019	03/30/2019	-30.00	-30.00	0.00	-30.00	0.00	0.00

V50104 BARRHEAD TRAVEL SERVICES LTD				Phone:0141 304 5859		Contact: MARIE LYNCH/EDEL DOHERTY 0141 304 5859				
190-194 MAIN STREET				Fax:0141 876 4690						
BARRHEAD										
GLASGOW										
GLASGOW, G78 1SL										
UNITED STATES										
				Supplier total		1,018.80	0.00	0.00	0.00	1,018.80
USD (US Dollar)				1,018.80	1,018.80	0.00	0.00	0.00	1,018.80	
CREDITNOTES				1,018.80	1,018.80	0.00	0.00	0.00	1,018.80	
B188565	USD	BFS030OB/000000004	01/25/2012	03/01/2012	1,018.80	1,018.80	0.00	0.00	0.00	1,018.80

## Additional Insights

### Impact of Overdue Payments on Business:

- Overdue payments lead to cash flow issues, limiting the company's ability to reinvest in growth.
- High-risk suppliers increase the need for additional working capital.

### Best Practices for Invoice Management:

1. Establish clear payment terms.
2. Regularly reconcile supplier accounts.
3. Provide suppliers with detailed statements to resolve disputes promptly.