

# TEST REPORT (시 험 성 적 서)

신청기관 (인) : 금호석유화학

APPLICANT : Kumho Petrochemical

주소 (한글) : 울산광역시 남구 처용로 260-257 ADDRESS (ENGL.) : 260-257, Cheoyong-ro, Nam-gu,

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발행면수 (PAGE):1 of 5

시험성적서 번호 (REPORT NO.):RT23R-S0274-016-K

발행일자 (DATE) : 2023. 01. 19.

시료 명세 :시료에 대한 상세한 정보는 아래와 같음

(The following submitted sample(s) said to be)

제품명/형식 : HI 470 R (NAME/TYPE OF PRODUCT) (HI 470 R)

(SAMPLE DESCRIPTION)

재질 : HIPS (NAME OF MATERIAL) (HIPS)

시료고유번호 : RT23R-S0274-016 (SAMPLE ID NO.) (RT23R-S0274-016)

제품 생산자/공급자 : 금호석유화학 (MANUFACTURER/VENDOR) (Kumho Petrochemical)

시료접수일자 : 2023. 01. 11. (SAMPLE RECEIVED) (Jan. 11, 2023)

시험일자 : 2023. 01. 11. ~ 2023. 01. 19. (TESTING DATE) (Jan. 11, 2023 ~ Jan. 19, 2023)

시험방법 : 이 시험성적서의 다음 페이지 첨부

(TEST METHOD) (Please see the following page)

시험결과 : 이 시험성적서의 다음 페이지 첨부

(TEST RESULT) (Please see the following page)

비고 (Notes): 1. 이 시험성적서는 제시된 시료 및 시료명으로 시험한 결과로서 유사 대상시료에 적용할 수 없음.

(The test results presented in this report refer only to the object tested.)

2. 이 시험성적서는 승인없이 복사 사용을 금함.

(This report shall not be reproduced except in full without the written approval of the testing laboratory.)

승인자 (Approved by)

장준용/기술책임자

2688

(Jade Jang / Lab. Technical Manager)

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Authenticity check

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(시 험 성 적 서)

발행면수 (PAGE): 2 of 5

시험성적서 번호 (REPORT NO.): RT23R-S0274-016-K 발행일자 (DATE): 2023. 01. 19.

시료고유번호 (SAMPLE ID NO.) : RT23R-S0274-016

시료명 (SAMPLE DESCRIPTION) : HI 470 R (HI 470 R)

(UNIT) (TEST METHOD) (MDL) (RESULT) 카드뮴 (Cadmium, Cd) mg/kg  한 (Lead, Pb) mg/kg  한 (Lead, Pb) mg/kg  한 (Lead, Pb) mg/kg  한 (Lead, Pb) mg/kg  한 (Mercury, Hg) mg/kg  EC (62321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS  한 (Mercury, Hg) mg/kg  한 (Mercury, Hg) mg/kg  EC (62321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS  한 (Mercury, Hg) mg/kg  EC (62321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS  EC (62321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS  EC (62321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS  EC (62321-6 Edition 1.0 : 2015, by s	시험항목	단위	분석방법	검출한계	시험결과
Trime	(TEST ITEM)	(UNIT)	(TEST METHOD)	(MDL)	(RESULT)
답 (Lead, Pb)	카드뮴 (Cadmium, Cd)	mg/kg		0.5	N.D.
유은 (Mercury, Hg) mg/kg lEC 62321-4 : 2013/AMD1 : 2017, by acid digestion and determined by ICP-OES With reference to IEC 62321-7-2 Edition 1.0 : 2017, by alkaline/folluene digestion and determined by UV-VIS Spectrophotometer	납 (Lead, Pb)	mg/kg	, ,	5	N.D.
REC 62321-7-2 Edition 1.0 : 2017, by alkaline/toluene digestion and determined by UV-VIS Spectrophotometer   8 N.D.	수은 (Mercury, Hg)	mg/kg	IEC 62321-4 : 2013/AMD1 : 2017, by acid digestion and	2	N.D.
모도브로모비페닐 (MonoBB)         mg/kg           다이브로모비페닐 (DiBB)         mg/kg           트라이브로모비페닐 (TriBB)         mg/kg           테트라브로모비페닐 (TertaBB)         mg/kg           테트라브로모비페닐 (PentaBB)         mg/kg           행사브로모비페닐 (HexaBB)         mg/kg           헬타브로모비페닐 (HeptaBB)         mg/kg           학사브로모비페닐 (OctaBB)         mg/kg           독타브로모비페닐 (NonaBB)         mg/kg           도나브로모비페닐 (DecaBB)         mg/kg           플리브롬화디페닐에테르 (Polybrominated Diphenyl Ethers, PBDEs)           모노브로모디페닐에테르 (MonoBDE)         mg/kg           다이브로모디페닐에테르 (MonoBDE)         mg/kg           타이브로모디페닐에테르 (TriBDE)         mg/kg           테트라브로모디페닐에테르 (PentaBDE)         mg/kg           테트라브로모디페닐에테르 (HexaBDE)         mg/kg           행사브로모디페닐에테르 (HexaBDE)         mg/kg           행사브로모디페닐에테르 (HexaBDE)         mg/kg           행나브로모디페닐에테르 (HexaBDE)         mg/kg           행나브로모디페닐에테르 (HeptaBDE)         mg/kg           등         N.D.           보다브로모디페닐에테르 (NonaBDE)         mg/kg           등         N.D.           보다브로모디페닐에테르 (NonaBDE)         mg/kg           등         N.D.           보다브로모디페닐에테르 (NonaBDE)         mg/kg           등	6가 크롬 (Hexavalent Chromium, Cr <sup>6+</sup> )	mg/kg	IEC 62321-7-2 Edition 1.0 : 2017, by alkaline/toluene digestion and determined by UV-VIS	8	N.D.
다이브로모비페닐 (DiBB)         mg/kg           트라이브로모비페닐 (TriBB)         mg/kg           테트라브로모비페닐 (TertaBB)         mg/kg           펜타브로모비페닐 (PentaBB)         mg/kg           헬사브로모비페닐 (HexaBB)         mg/kg           헬타브로모비페닐 (HeptaBB)         mg/kg           헬타브로모비페닐 (OctaBB)         mg/kg           노나브로모비페닐 (NonaBB)         mg/kg           데카브로모비페닐 (DecaBB)         mg/kg           플리브록화디페닐에테르 (Polybrominated Diphenyl Ethers, PBDEs)           모노브로모디페닐에테르 (NonaBDE)         mg/kg           타이브로모디페닐에테르 (DiBDE)         mg/kg           트라이브로모디페닐에테르 (TriBDE)         mg/kg           테트라브로모디페닐에테르 (PentaBDE)         mg/kg           테타브로모디페닐에테르 (HexaBDE)         mg/kg           헬사브로모디페닐에테르 (HeptaBDE)         mg/kg           헬타브로모디페닐에테르 (HeptaBDE)         mg/kg           를타브로모디페닐에테르 (NonaBDE)         mg/kg           등         N.D.           보다브로모디페닐에테르 (NonaBDE)         mg/kg           등         N.D.		yls, PBBs)			
트라이브로모비페닐 (TriBB)         mg/kg           테트라브로모비페닐 (PentaBB)         mg/kg           펜타브로모비페닐 (PentaBB)         mg/kg           핵사브로모비페닐 (HexaBB)         mg/kg           헬타브로모비페닐 (HeptaBB)         mg/kg           합타브로모비페닐 (OctaBB)         mg/kg           노나브로모비페닐 (NonaBB)         mg/kg           너라르모비페닐 (NonaBB)         mg/kg           플리브롬화디페닐에테르 (Polybrominated Diphenyl Ethers, PBDEs)         5           모노브로모디페닐에테르 (MonoBDE)         mg/kg           타이브로모디페닐에테르 (DiBDE)         mg/kg           트라이브로모디페닐에테르 (TriBDE)         mg/kg           테트라브로모디페닐에테르 (PentaBDE)         mg/kg           আ사브로모디페닐에테르 (PentaBDE)         mg/kg           আ사브로모디페닐에테르 (HexaBDE)         mg/kg           আ라브로모디페닐에테르 (HexaBDE)         mg/kg           আ라브로모디페닐에테르 (HeptaBDE)         mg/kg           오타브로모디페닐에테르 (NonaBDE)         mg/kg           그나브로모디페닐에테르 (NonaBDE)         mg/kg           오나브로모디페닐에테르 (NonaBDE)         5		mg/kg		5	N.D.
테트라브로모비페닐 (TertaBB) mg/kg 펜타브로모비페닐 (PentaBB) mg/kg 헬사브로모비페닐 (HexaBB) mg/kg 헬타브로모비페닐 (HexaBB) mg/kg 리타브로모비페닐 (OctaBB) mg/kg 모나브로모비페닐 (NonaBB) mg/kg 데카브로모비페닐 (DecaBB) mg/kg 플리브롬화디페닐에테르 (Polybrominated Diphenyl Ethers, PBDEs) 모노브로모디페닐에테르 (MonoBDE) mg/kg 다이브로모디페닐에테르 (TitiBDE) mg/kg 테트라브로모디페닐에테르 (TetraBDE) mg/kg 테트라브로모디페닐에테르 (PentaBDE) mg/kg 테트라브로모디페닐에테르 (HexaBDE) mg/kg 데카브로모디페닐에테르 (HexaBDE) mg/kg 티트라브로모디페닐에테르 (HexaBDE) mg/kg 리트라브로모디페닐에테르 (HexaBDE) mg/kg 리타브로모디페닐에테르 (HexaBDE) mg/kg 지.D. 오타브로모디페닐에테르 (HexaBDE) mg/kg 리타브로모디페닐에테르 (HexaBDE) mg/kg 지.D. 오타브로모디페닐에테르 (NonaBDE) mg/kg		mg/kg		5	N.D.
팬타브로모비페닐 (PentaBB)		mg/kg		5	N.D.
핵사브로모비페닐 (HexaBB)         mg/kg         by solvent extraction and determined by GC/MS         5         N.D.           행타브로모비페닐 (OctaBB)         mg/kg         5         N.D.           옥타브로모비페닐 (NonaBB)         mg/kg         5         N.D.           보나브로모비페닐 (DecaBB)         mg/kg         5         N.D.           플리브롬화디페닐에테르 (Polybrominated Diphenyl Ethers, PBDEs)         5         N.D.           모노브로모디페닐에테르 (MonoBDE)         mg/kg         5         N.D.           다이브로모디페닐에테르 (DiBDE)         mg/kg         5         N.D.           트라이브로모디페닐에테르 (TriBDE)         mg/kg         5         N.D.           테트라브로모디페닐에테르 (PentaBDE)         mg/kg         5         N.D.           헥사브로모디페닐에테르 (HexaBDE)         mg/kg         5         N.D.           헬타브로모디페닐에테르 (HeptaBDE)         mg/kg         5         N.D.           옥타브로모디페닐에테르 (NonaBDE)         mg/kg         5         N.D.           오타브로모디페닐에테르 (NonaBDE)         mg/kg         5         N.D.	테트라브로모비페닐 (TertaBB)	mg/kg	With reference to	5	N.D.
헵타브로모비페닐 (HeptaBB)         mg/kg         determined by GC/MS         5         N.D.           옥타브로모비페닐 (NonaBB)         mg/kg         5         N.D.           노나브로모비페닐 (DecaBB)         mg/kg         5         N.D.           데카브로모비페닐 (DecaBB)         mg/kg         5         N.D.           폴리브롬화디페닐에테르 (Polybrominated Diphenyl Ethers, PBDEs)         ************************************		mg/kg	IEC 62321-6 Edition 1.0 : 2015,	5	N.D.
ST	헥사브로모비페닐 (HexaBB)	mg/kg	1 · · · · · · · · · · · · · · · · · · ·	5	N.D.
노나브로모비페닐 (NonaBB)         mg/kg         5         N.D.           데카브로모비페닐 (DecaBB)         mg/kg         5         N.D.           폴리브롬화디페닐에테르 (Polybrominated Diphenyl Ethers, PBDEs)         모노브로모디페닐에테르 (MonoBDE)         mg/kg         5         N.D.           다이브로모디페닐에테르 (DiBDE)         mg/kg         5         N.D.           트라이브로모디페닐에테르 (TriBDE)         mg/kg         5         N.D.           테트라브로모디페닐에테르 (PentaBDE)         mg/kg         5         N.D.           헥사브로모디페닐에테르 (HexaBDE)         mg/kg         5         N.D.           헬타브로모디페닐에테르 (HeptaBDE)         mg/kg         5         N.D.           옥타브로모디페닐에테르 (OctaBDE)         mg/kg         5         N.D.           노나브로모디페닐에테르 (NonaBDE)         mg/kg         5         N.D.	헵타브로모비페닐 (HeptaBB)	mg/kg	determined by GC/MS	5	N.D.
대카브로모비페닐 (DecaBB) mg/kg   5 N.D.     폴리브롬화디페닐에테르 (Polybrominated Diphenyl Ethers, PBDEs)   5 N.D.     모노브로모디페닐에테르 (MonoBDE) mg/kg   5 N.D.     다이브로모디페닐에테르 (DiBDE) mg/kg   5 N.D.     트라이브로모디페닐에테르 (TriBDE) mg/kg   5 N.D.     테트라브로모디페닐에테르 (TetraBDE) mg/kg   5 N.D.     테타브로모디페닐에테르 (PentaBDE) mg/kg   5 N.D.     테타브로모디페닐에테르 (PentaBDE) mg/kg   5 N.D.     테타브로모디페닐에테르 (HexaBDE) mg/kg   5 N.D.     해사브로모디페닐에테르 (HexaBDE) mg/kg   5 N.D.     학사브로모디페닐에테르 (HeptaBDE) mg/kg   5 N.D.     막나브로모디페닐에테르 (OctaBDE) mg/kg   5 N.D.     노나브로모디페닐에테르 (NonaBDE) mg/kg   5 N.D.	옥타브로모비페닐 (OctaBB)	mg/kg		5	N.D.
폴리브롬화디페닐에테르 (Polybrominated Diphenyl Ethers, PBDEs)  모노브로모디페닐에테르 (MonoBDE) mg/kg 다이브로모디페닐에테르 (DiBDE) mg/kg 트라이브로모디페닐에테르 (TriBDE) mg/kg 테트라브로모디페닐에테르 (TetraBDE) mg/kg 펜타브로모디페닐에테르 (PentaBDE) mg/kg 헬차브로모디페닐에테르 (HexaBDE) mg/kg 헬타브로모디페닐에테르 (HeptaBDE) mg/kg 악이나르로모디페닐에테르 (HeptaBDE) mg/kg 목타브로모디페닐에테르 (OctaBDE) mg/kg 노나브로모디페닐에테르 (NonaBDE) mg/kg  노나브로모디페닐에테르 (NonaBDE) mg/kg 5 N.D.	노나브로모비페닐 (NonaBB)	mg/kg		5	N.D.
모노브로모디페닐에테르 (MonoBDE)         mg/kg           다이브로모디페닐에테르 (DiBDE)         mg/kg           트라이브로모디페닐에테르 (TriBDE)         mg/kg           테트라브로모디페닐에테르 (TetraBDE)         mg/kg           펜타브로모디페닐에테르 (PentaBDE)         mg/kg           헥사브로모디페닐에테르 (HexaBDE)         mg/kg           헬타브로모디페닐에테르 (HeptaBDE)         mg/kg           옥타브로모디페닐에테르 (OctaBDE)         mg/kg           노나브로모디페닐에테르 (NonaBDE)         mg/kg           노나브로모디페닐에테르 (NonaBDE)         mg/kg           5         N.D.           5         N.D.           5         N.D.           5         N.D.	데카브로모비페닐 (DecaBB)	mg/kg		5	N.D.
다이브로모디페닐에테르 (DiBDE)         mg/kg           트라이브로모디페닐에테르 (TriBDE)         mg/kg           테트라브로모디페닐에테르 (TetraBDE)         mg/kg           펜타브로모디페닐에테르 (PentaBDE)         mg/kg           헥사브로모디페닐에테르 (HexaBDE)         mg/kg           헬타브로모디페닐에테르 (HeptaBDE)         mg/kg           옥타브로모디페닐에테르 (OctaBDE)         mg/kg           노나브로모디페닐에테르 (NonaBDE)         mg/kg           5         N.D.	폴리브롬화디페닐에테르 (Polybrominated	Diphenyl Ether	rs, PBDEs)		
트라이브로모디페닐에테르 (TriBDE)mg/kg테트라브로모디페닐에테르 (TetraBDE)mg/kg펜타브로모디페닐에테르 (PentaBDE)mg/kg헥사브로모디페닐에테르 (HexaBDE)mg/kg헵타브로모디페닐에테르 (HeptaBDE)mg/kg옥타브로모디페닐에테르 (OctaBDE)mg/kg노나브로모디페닐에테르 (NonaBDE)mg/kg  5N.D.by solvent extraction and determined by GC/MS5N.D.5N.D.  5N.D.  5N.D.  5N.D.  5N.D.	모노브로모디페닐에테르 (MonoBDE)	mg/kg		5	N.D.
테트라브로모디페닐에테르 (TetraBDE) mg/kg With reference to IEC 62321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS 5 N.D. 의하나브로모디페닐에테르 (HeptaBDE) mg/kg 하나브로모디페닐에테르 (OctaBDE) mg/kg 노나브로모디페닐에테르 (NonaBDE) mg/kg 5 N.D.	다이브로모디페닐에테르 (DiBDE)	mg/kg		5	N.D.
펜타브로모디페닐에테르 (PentaBDE)         mg/kg         IEC 62321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS         5         N.D.           헬타브로모디페닐에테르 (HeptaBDE)         mg/kg         5         N.D.           옥타브로모디페닐에테르 (OctaBDE)         mg/kg         5         N.D.           노나브로모디페닐에테르 (NonaBDE)         mg/kg         5         N.D.	트라이브로모디페닐에테르 (TriBDE)	mg/kg		5	N.D.
펜타브로모디페닐에테르 (PentaBDE)         mg/kg         IEC 62321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS         5         N.D.           헬사브로모디페닐에테르 (HeptaBDE)         mg/kg         5         N.D.           옥타브로모디페닐에테르 (OctaBDE)         mg/kg         5         N.D.           노나브로모디페닐에테르 (NonaBDE)         mg/kg         5         N.D.	테트라브로모디페닐에테르 (TetraBDE)	mg/kg	With reference to	5	N.D.
헵타브로모디페닐에테르 (HeptaBDE)         mg/kg         determined by GC/MS         5         N.D.           옥타브로모디페닐에테르 (OctaBDE)         mg/kg         5         N.D.           노나브로모디페닐에테르 (NonaBDE)         mg/kg         5         N.D.	펜타브로모디페닐에테르 (PentaBDE)	mg/kg		5	N.D.
합니므로보다페일에데드 (Reptable)       IIIg/kg       5       N.D.         옥타브로모디페일에테르 (OctaBDE)       mg/kg       5       N.D.         노나브로모디페일에테르 (NonaBDE)       mg/kg       5       N.D.	헥사브로모디페닐에테르 (HexaBDE)	mg/kg		5	N.D.
노나브로모디페닐에테르 (NonaBDE) mg/kg 5 N.D.	헵타브로모디페닐에테르 (HeptaBDE)	mg/kg	determined by GC/MS	5	N.D.
노나브로모디페닐에테르 (NonaBDE) mg/kg 5 N.D.	옥타브로모디페닐에테르 (OctaBDE)	mg/kg		5	N.D.
		mg/kg		5	N.D.
	데카브로모디페닐에테르 (DecaBDE)	mg/kg		5	N.D.

Tested by : Jooyeon Lee, Chano Kim, Hayan Park

Notes: mg/kg = ppm = parts per million (함량 표시 : 백만분의 일)

< = Less than (결과 값 이하)

N.D. = Not detected (< MDL, 미검출 – 검출한계 이하)

MDL = Method detection limit (검출한계)

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(시 험 성 적 서)

발행면수 (PAGE):3 of 5

시험성적서 번호 (REPORT NO.): RT23R-S0274-016-K 발행일자 (DATE): 2023. 01. 19.

시료고유번호 (SAMPLE ID NO.) : RT23R-S0274-016

시료명 (SAMPLE DESCRIPTION) : HI 470 R (HI 470 R)

시험항목	CAS번호	단위	분석방법	검출한계	시험결과
(TEST ITEM)	(CAS NO.)	(UNIT)	(TEST METHOD)	(MDL)	(RESULT)
디부틸프탈레이트 (Dibutyl phthalate, DBP)	84-74-2	mg/kg	With reference to IEC 62321-8 Edition 1.0 : 2017,	50	N.D.
디에틸혝실프탈레이트 (Di-(2-ethylhexyl) phthalate, DEHP)	117-81-7	mg/kg		50	N.D.
벤질부틸프탈레이트 (Benzyl butyl phthalate, BBP)	85-68-7	mg/kg	by solvent extraction and determined by GC/MS	50	N.D.
디이소부틸프탈레이트 (Diisobutyl phthalate, DIBP)	84-69-5	mg/kg	33,1413	50	N.D.

Tested by : Hayan Park

Notes: mg/kg = ppm = parts per million (함량 표시 : 백만분의 일)

< = Less than (결과 값 이하)

N.D. = Not detected (< MDL, 미검출 - 검출한계 이하)

MDL = Method detection limit (검출한계)

\* 시료 접수 시 시료 상태 : (View of sample as received)



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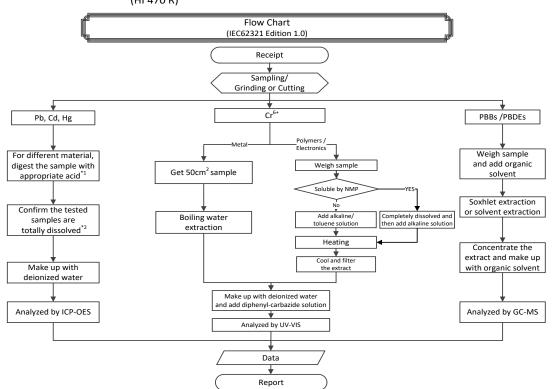
(시 험 성 적 서)

발행면수 (PAGE):4 of 5

발행일자 (DATE): 2023. 01. 19. 시험성적서 번호 (REPORT NO.): RT23R-S0274-016-K

시료고유번호 (SAMPLE ID NO.) : RT23R-S0274-016

시료명 (SAMPLE DESCRIPTION) : HI 470 R (HI 470 R)



Remarks:
\*1: List of appropriate acid:

. List of appropriate acid .					
	Material	Acid added for digestion			
	Polymers	HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub> , H3BO <sub>3</sub>			
	Metals	HNO₃, HCl, HF			
	Electronics	HNO <sub>3</sub> , HCl, H <sub>2</sub> O <sub>2</sub> , HBF <sub>4</sub>			

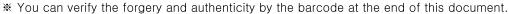
<sup>\*2 :</sup> The samples were dissolved totally by pre-conditioning method according to above flow chart.

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(시 험 성 적 서)

발행면수 (PAGE):5 of 5

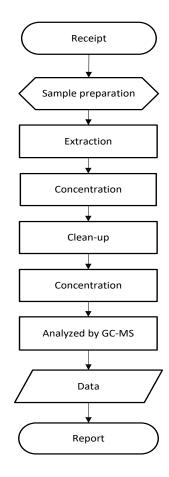
발행일자 (DATE): 2023. 01. 19.

시험성적서 번호 (REPORT NO.): RT23R-S0274-016-K 시료고유번호 (SAMPLE ID NO.): RT23R-S0274-016

시료명 (SAMPLE DESCRIPTION) : HI 470 R

(HI 470 R)

Flow Chart (Phthalates)



### \*\*\*\*\* End of Report \*\*\*\*\*

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