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## CANMET

Canada Centre  
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### CANMET COPROCESSING OPERABILITY USING A BENCH-SCALE UNIT

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**CANMET COPROCESSING OPERABILITY**

**USING A BENCH-SCALE UNIT**

**BY**

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## **OBJECTIVES**

- \* TO ASSESS THE OPERABILITY OF CANMET COPROCESSING USING A BENCH-SCALE UNIT**
- \* TO STUDY THE UPGRADABILITY OF CANMET COPROCESSING DISTILLATE**

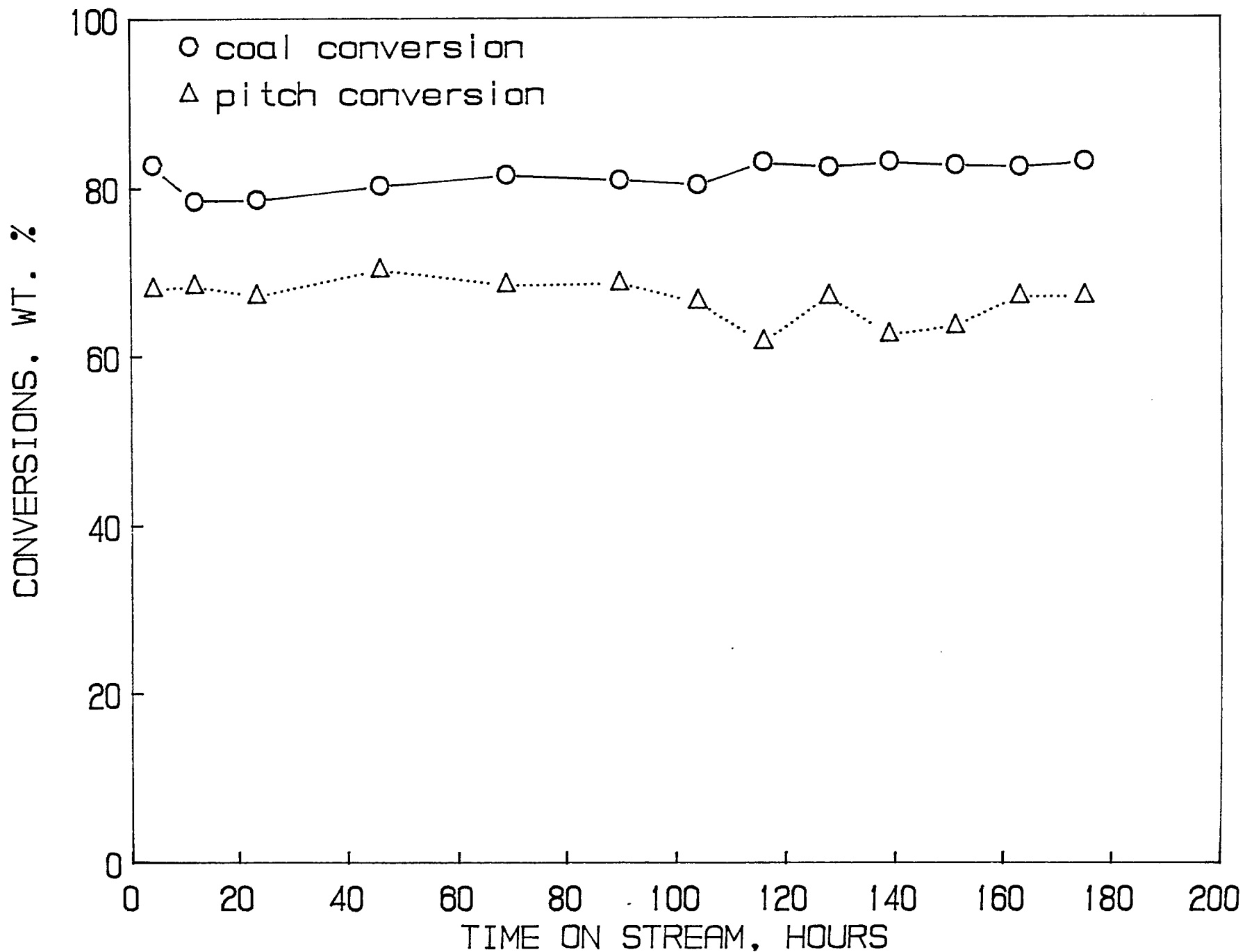
## PROCESS CONDITIONS

REACTOR	CONTINUOUS STIRRED TANK (0.30 KG/H)
TEMPERATURE	455 °C
PRESSURE	13.8 MPa
WHSV	1 KG/H/L
CATALYST	IRON SULPHATE
COAL CONCENTRATION	30 WT % MAF

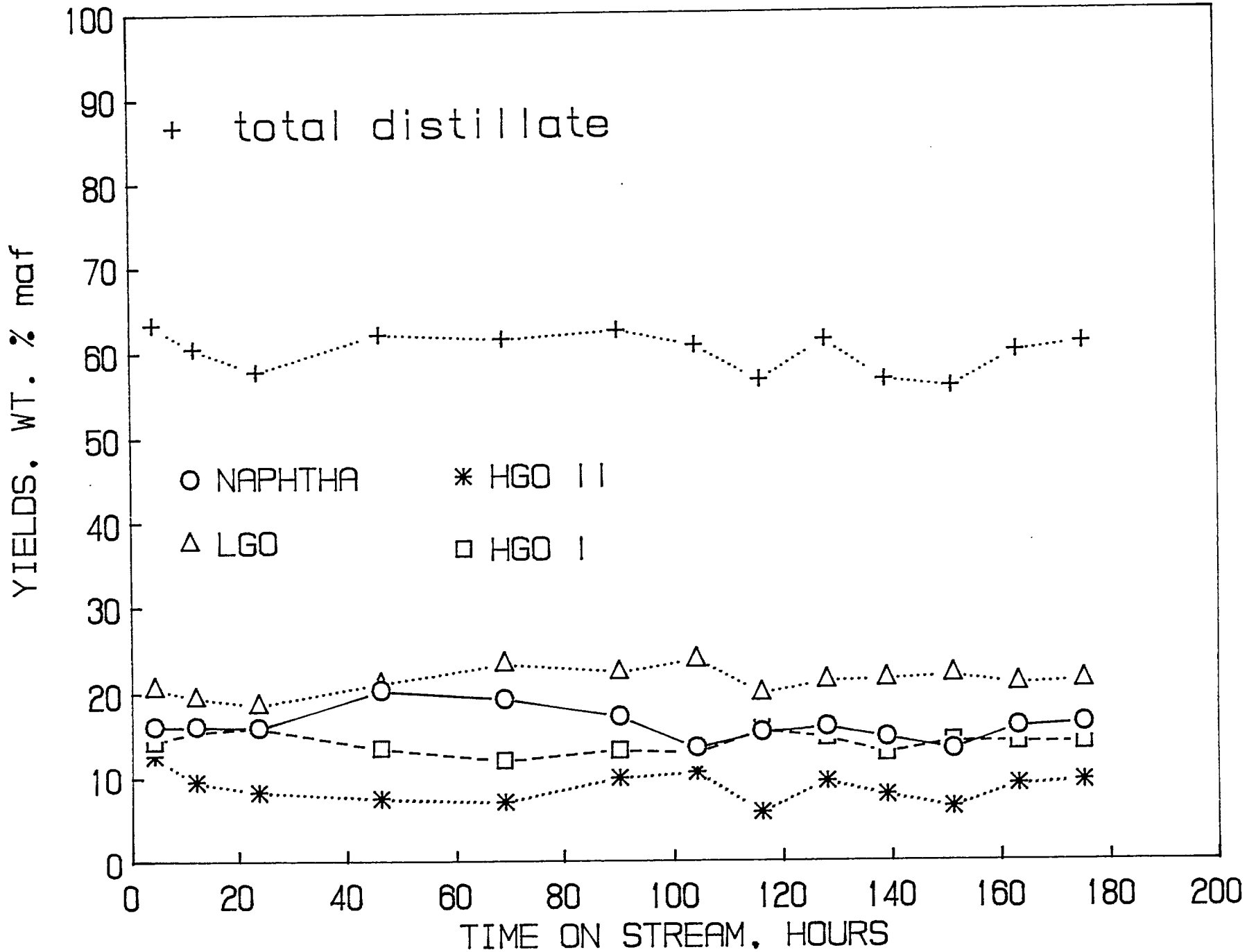
## FEEDSTOCK CHARACTERISTICS

Forestburg Coal		Cold Lake vacuum bottoms	
Proximate analysis (wt % as received)		Specific gravity (15/15°C)	1.038
Moisture	14.09	Pentane-insolubles	23.5(wt%)
Volatile matter	36.37	Pitch content(wt.%)	83.2
Fixed carbon	42.67	CCR (wt %)	17.1
Ash	6.87	Elemental composition (wt %)	
		C	83.3
Ultimate analysis (wt % daf)		H	9.7
		N	0.4
		S	5.8
C	71.99	O	0.7
H	4.64	Metals (ppm)	
N	1.78	V	235
O	20.98	Ni	93
S	0.61	Fe	18

# OPERABILITY OF CANMET COPROCESSING



# OPERABILITY OF CANMET COPROCESSING



## PRODUCT CHARACTERISTICS

	WHOLE DISTILLATE IBP-525°C	NAPHTHA IBP-205°C	LGO 205-335°C	HGOI 335-415°C	HGOII 415-525°C
C	85.15	84.67	84.82	86.0	86.24
H	11.62	13.64	11.43	10.11	9.58
O	1.20	0.94	1.39	1.08	1.01
N	0.511	0.16	0.52	0.74	0.96
S	1.51	0.56	1.83	2.04	2.19
SPECIFIC GRAVITY (15/15°C)	0.881	----	----	----	----
AROMATICITY	25	9	28	38	44