



The next
CURVE
in slurry pumping



pump & abrasion[®]
TECHNOLOGIES

CURVE[™]
Slurry Pumps

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CHROME CLIENT

SECONDARY SPIRAL FEED 2

F A R O 5 1



Introduction

The Secondary Spiral Feed pump, at the Client's plant, only lasted a maximum of 2 week before the Impeller and Liners had to be replaced.

Pump & Abrasion Technologies® preformed a pump audit and a CURVE S200 was proposed for this application.

The CURVE S200 was deemed successful when it was removed for repair on 01/03/2019

Objectives

- To increase the Liner and Impeller lifespan in order to reduce the plant's downtime;
- To decrease the power usage at the Spiral Plant;
- Convert the Spiral Plant pumps to CURVE pumps.

After 10 weeks of operation, the Impeller of the CURVE S200 was still in good condition. It had minimal wear on the outer vanes and the Impeller eye showed no wear at all.

CURVE S200 impeller after a period of 10 weeks in operation.



Specifications

	Previous pump	Successful pump
Pump model	8/6F	CURVE S200
Impeller	27% Chrome	M3
• Life (wk)	2	10
Suction liner	Rubber	Rubber (RN2)
• Life (wk)	2	10
Drive liner	Rubber	Rubber (RN2)
• Life (wk)	2	10
Volute/Casing	Rubber	Rubber (RN2)
• Life (wk)	2	10
Amps	91%	65%
SG	1.3	1.3
Rpm	814	785
Flow achieved (m ³ /h)	204	252
Absorbed power (kW)	91.85	61.65

Savings achieved with the CURVE S200

33%

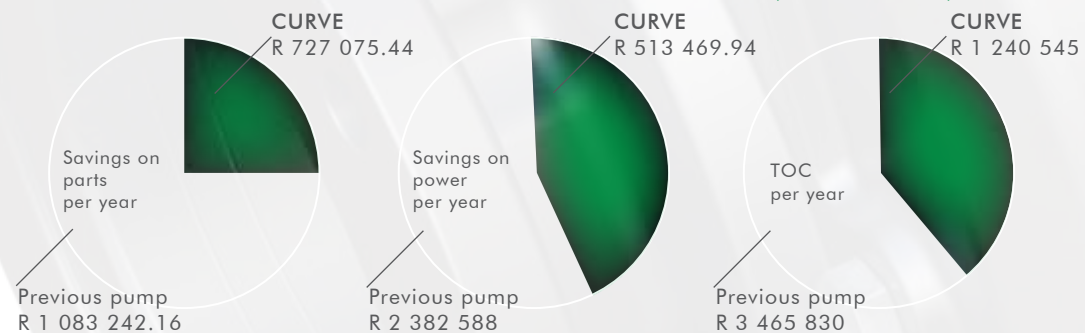
(Savings on power)

78%

(Savings on parts)

64%

(TOC reduction)



The CURVE S200 projected saving the Client R 2 225 285 per annum, i.e. **64.2% TOC Reduction**.

The annual power usage will be reduced by **33%** and the annual saving on spares will be **R1 869 118**.

According to the findings, the Return On Investment on purchasing the CURVE S200 is a month and a half.