FLOWSERVE Pump Division *Worthington Spa*	VENDOR'S DOCUMENT No. PDS-0646201	SHEET 1 of 2
TITLE	**PUMP DATA SHEET**	

Vendor's name:	**FLOWSERVE PUMP DIVISION - *WORTHINGTON S.p.a.***
Company's name:	**SUNCOR ENERGY INC.**
Purchaser's name:	**SUNCOR ENERGY INC.**
Plant Location:	**Sarnia, ON**
Project name:	**Suncor Sarnia Refinery**
Purchase Order No.:	**4500086160**
Unit / Service:	**Slop Oil Pump**
Pump Type:	**3 HPX 8A**
Equipment name:	**CENTRIFUGAL PUMPS**
Item Number:	**03-P1006B**

00	12/07/06	FIRST ISSUE FOR APPROVAL	F.MERONI	F.MERONI	U.MARCHI
REV.	**DATE**	**DESCRIPTION**	**PREPARED**	**VERIFIED**	**APPROVED**

FLOWSERVE Pump Division

Hydraulic Datasheet

Customer	: Suncor	Pump / Stages	: 3HPX8A	/ 1
Customer reference	: Slop Oil Pump	Based on curve no.	: 3HPX8A-1-2	
Item number	: 03-P1006B	Vendor reference	: 2458-60013	
Service	: Slop Oil	Date	: June 1, 2006	

Operating Conditions

Capacity	: 350.0 USgpm
Water Capacity (CQ=1.00)	: 350.0 USgpm
Normal capacity	: -
Total Developed Head	: 140.00 ft
Water head (CH=1.00)	: 140.24 ft
NPSH available (NPSHa)	: 13.0 ft
NPSHa less NPSH margin	: -
Maximum suction pressure	: 0 0 psig

Liquid

Liquid type	: Hydrocarbon
Temperature / SG	: 300 °F / 1.000
Solids diameter	: -
Viscosity / Vapor pressure	: 10.0 cP / 1.00 psia

Materials / Specification

Material column code	: S-6
Pump specification	:

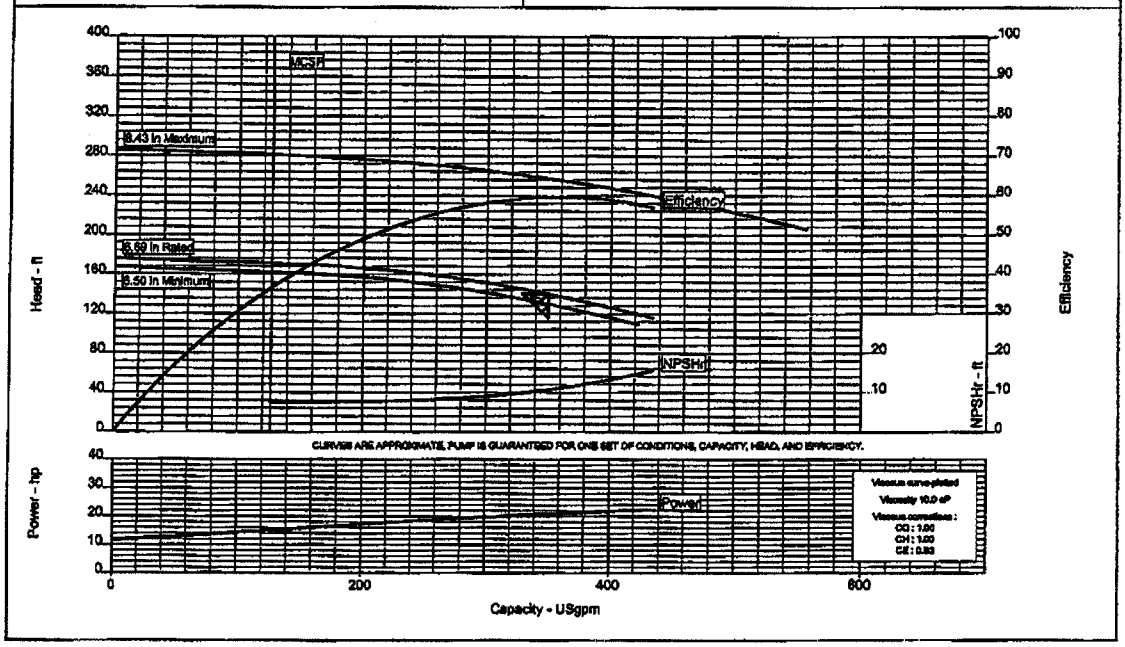
Other Requirements

Hydraulic selection : No specification
Construction : No specification
Test tolerance : API-610 8th Edition
Driver Sizing : Max Power(MCSF to EOC)with SF
Performance data based on standard impeller
Seal configuration : Tandem Seal

Performance

Hydraulic power	: 12.37 hp
Pump speed	: 3540 rpm
Efficiency (CE=0.93)	: 59.6 %
NPSH required (NPSHr)	: 10.6 ft
Rated power	: 20.8 hp
Maximum power	: 22.3 hp
Driver power	: 25.0 hp / 18.6 kW
Casing working pressure	: 76.1 psig
(based on shut off @ cut dia)	
Maximum allowable	: 600.2 psig
Hydrostatic test pressure	: 900.3 psig
Est. rated seal chamb. press.	: 25.00 psig

Impeller diameter	
Rated	: 6.69 in
Maximum	: 8.43 in
Minimum	: 6.50 in
Suction specific speed	: 8050 US units
Minimum continuous flow	: 126.7 USgpm
Maximum head @ rated dia	: 175.8 ft
Flow at BEP	: 359.0 USgpm
Flow as % of BEP	: 97.5 %
Efficiency at normal flow	: -
Impeller dia ratio (rated/max)	: 79.4 %
Head rise to shut off	: 25.5 %
Total head ratio (rated/max)	: 54.5 %



WinPROS+ V3.2.5