INDUSTRIAL FLUID SYSTEMS

Mobile Micro Filtration Oil Purification Cart

Typical applications

Hydraulic/Lube Systems
50 to 700 Gallons
-Gear Boxes
-CNC Machines
-Stamping Presses
-Servo Controlled Sys.

Batch Recycling
-High Speed Spindle Oil
-Lube Oil
-Hydraulic Oil
-Transmission Fluid

Equipment Specifications

1.10GPM, 4.2L/M
Process Flow Rate

1.2 kW Heater w/
Temperature Gauge

Electrical Control w/
"On" & "Off" Push Buttons

Power Requirement:
120V–15 Amps

2, 5 or 15 Micron Elements

High Pressure Alarm

High Temperature Alarm

10ft. Electrical Cord

10ft. Inlet & Outlet Hoses

Optional Features

Cycle Timer

Remote Level Sensors

Particle Counter

Moisture Sensor

The Mobile Micro Filtration Oil Purification System is designed to keep your equipment running at maximum efficiency. Contaminated oil destroys bearings, seals, pumps and servo valves causing premature wear, down time and high maintenance costs. The Micro Filter removes solids, micro solids and small amounts of water extending the life of the oil and the equipment. The system runs on 120 volt, 15 amp power. Industrial Fluid Systems custom build a system to meet your requirements.
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INDUSTRIAL FLUID SYSTEMS
22200 Ryan Road
Warren, MI 48091
Phone: 800-343-8106
Fax: 586-754-8284
www.industrialfluidsystems.com

Model: PFC-1/2-F58NTZ-120-1.2KW

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Mobile Micro Filtration Oil Purification Cart

EXAMPLE: **PFC - 1/2 - F58NTZ - 120 - 1.2KW**

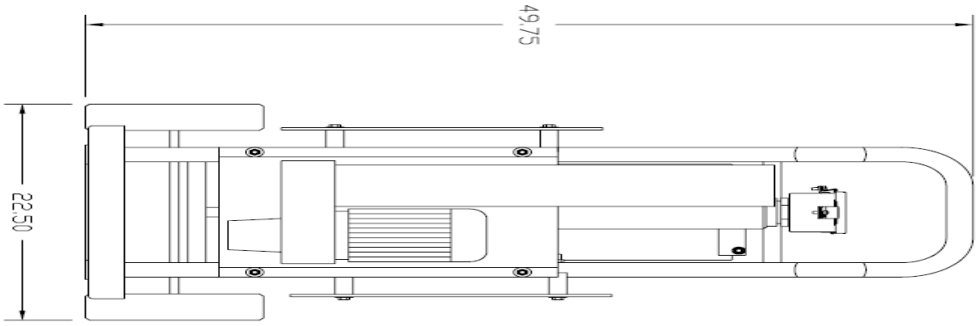
PORTABLE FILTER CART = PFC

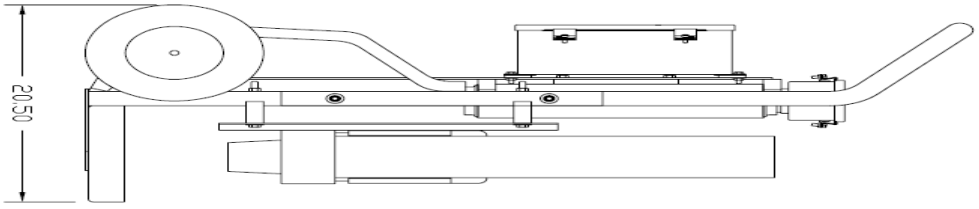
PIPE SIZE
1/2-inch female NPT **= 1/2**

NTZ FILTER SIZE
2.1 liters per minute **= F29NTZ**
4.2 liters per minute **= F58NTZ**

POWER SOURCE
120V **= 120**

HEATER ELEMENT
1.2KW = 1.2 Kilowatt
X.XKW = X.X Kilowatt





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BLACKSTONE LABORATORIES

OIL REPORT

LAB NUMBER: E09947
REPORT DATE: 4/20/2010
CODE: 1/319

UNIT ID: AFTER POLISHNG
CLIENT ID: 1314
PAYMENT: Verbal, Paul

UNIT

MAKE/MODEL: Hydraulic System
FUEL TYPE:
ADDITIONAL INFO:

OIL TYPE & GRADE: Mobil DTE 24 Hydraulic
OIL USE INTERVAL:

CLIENT

PAUL HAMPTON
INDUSTRIAL FLUID SYSTEMS
22200 RYAN RD
WARREN, MI 48091

PHONE: (586) 754-8220
FAX: (586) 754-8284
ALT PHONE:
EMAIL: phampton@industrialfluidsystems.com

COMMENTS

PAUL: Wear read low but we found a high amount of silicon in this oil. The ISO code is 12/11/18, which is fairly clean for a hydraulic oil. We suspect the silicon is harmless, and if you agree then we think this oil can stay in use.

ELEMENTS IN PARTS PER MILLION

		UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
MI/HR on Oil								
MI/HR on Unit								
Sample Date	04/16/10							
Make Up Oil Added								
ALUMINUM	0	0						0
CHROMIUM	0	0						0
IRON	1	15						6
COPPER	1	46						8
LEAD	1	2						2
TIN	1	1						0
MOLYBDENUM	0	0						1
NICKEL	0	0						0
MANGANESE	0	0						0
SILVER	0	0						0
TITANIUM	0	0						0
POTASSIUM	0	3						0
BORON	1	5						6
SILICON	**20**	8						4
SODIUM	1	6						5
CALCIUM	57	96						187
MAGNESIUM	7	4						20
PHOSPHORUS	453	446						374
ZINC	474	590						412
BARIUM	1	1						13

PROPERTIES

		Values Should Be*					
SUS Viscosity @ 210°F	49.1	44-49					
cSt Viscosity @ 100°C	7.00	5.4-7.3					
Flashpoint in °F	430	>405					
Fuel %	-						
Antifreeze %	-						
Water %	0.0	0.0					
Insolubles %	0.0	<0.1					
TBN							
TAN							
ISO Code	12/11/8						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com

BLACKSTONE LABORATORIES

OIL REPORT

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REPORT DATE: 4/20/2010 CLIENT ID: 1314
CODE: 1/319 PAYMENT: Verbal, Paul

UNIT

MAKE/MODEL: Hydraulic System
FUEL TYPE:
ADDITIONAL INFO:
OIL TYPE & GRADE: Mobil DTE 24 Hydraulic
OIL USE INTERVAL:

CLIENT

PAUL HAMPTON
INDUSTRIAL FLUID SYSTEMS
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WARREN, MI 48091
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FAX: (586) 754-8284
ALT PHONE:
EMAIL: phampton@industrialfluidsystems.com

COMMENTS

PAUL: A lot of silicon was found in this sample. It doesn't appear to be abrasive, since wear is so low. The ISO code was 20/19/16 which is dirty for a hydraulic oil. You could try filtering this oil, but 0.3% insolubles is generally more than can be removed through filtration. Due to insolubles, this Mobil DTE oil should probably be changed.

ELEMENTS IN PARTS PER MILLION

		UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
MI/HR on Oil								
MI/HR on Unit								
Sample Date	04/16/10							
Make Up Oil Added								
ALUMINUM	0	0						0
CHROMIUM	0	0						0
IRON	2	15						6
COPPER	2	46						8
LEAD	2	2						2
TIN	0	1						0
MOLYBDENUM	0	0						1
NICKEL	0	0						0
MANGANESE	0	0						0
SILVER	0	0						0
TITANIUM	0	0						0
POTASSIUM	0	3						0
BORON	13	5						6
SILICON	**26**	8						4
SODIUM	3	6						5
CALCIUM	73	96						187
MAGNESIUM	2	4						20
PHOSPHORUS	494	446						374
ZINC	496	590						412
BARIUM	3	1						13

PROPERTIES

		Values Should Be*					
SUS Viscosity @ 210°F	47.6	44-49					
cSt Viscosity @ 100°C	6.52	5.4-7.3					
Flashpoint in °F	410	>405					
Fuel %	-						
Antifreeze %	-						
Water %	0.0	0.0					
Insolubles %	**0.3**	<0.1					
TBN							
TAN							
ISO Code	20/19/16						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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