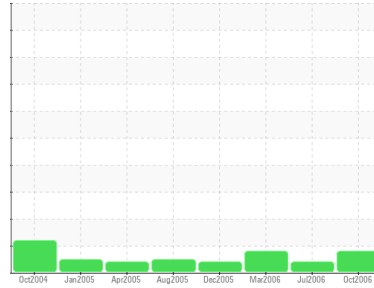




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
Hydraulics
 Machine Id
PRESS #25

Component
Hydraulic System
 Fluid

SUNOCO SUNVIS 868 ISO 68 (--- LTR)

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates (5 to 100 microns in size) present in the oil.

Fluid Condition

The condition of oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC22053390	WC22051635	WC22048491
Sample Date	Client Info	24 Oct 2006	25 Jul 2006	27 Mar 2006
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	6	6	6
Chromium	ppm	ASTM D5185(m)	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	0	<1	0
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m)	0	0	0
Aluminum	ppm	ASTM D5185(m)	<1	<1	0
Lead	ppm	ASTM D5185(m)	2	0	2
Copper	ppm	ASTM D5185(m)	11	11	10
Tin	ppm	ASTM D5185(m)	3	3	3
Vanadium	ppm	ASTM D5185(m)	0	<1	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	<1	1	<1
Barium	ppm	ASTM D5185(m)	2	2	2
Molybdenum	ppm	ASTM D5185(m)	<1	<1	<1
Manganese	ppm	ASTM D5185(m)	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	58	64	60
Calcium	ppm	ASTM D5185(m)	80	84	83
Phosphorus	ppm	ASTM D5185(m)	536	541	542
Zinc	ppm	ASTM D5185(m)	595	603	588
Sulfur	ppm	ASTM D5185(m)	2441	2204	2496

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	4	4	4
Sodium	ppm	ASTM D5185(m)	4	6	6
Potassium	ppm	ASTM D5185(m)	0	0	<1

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	5521	4105	5855
Particles >6µm	ASTM D7647	▲ 1955	▲ 1545	▲ 2099
Particles >14µm	ASTM D7647	▲ 291	144	▲ 240
Particles >21µm	ASTM D7647	71	34	45
Particles >38µm	ASTM D7647	7	7	5
Particles >71µm	ASTM D7647	0	0	0
Oil Cleanliness	ISO 4406 (c)	▲ 20/18/15	▲ 19/18/14	▲ 20/18/15

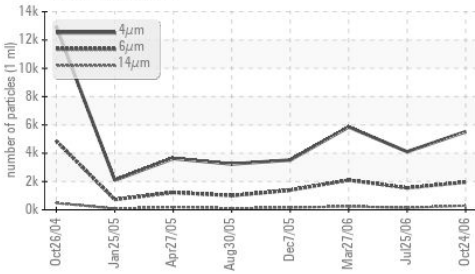
FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.68	0.74	0.555

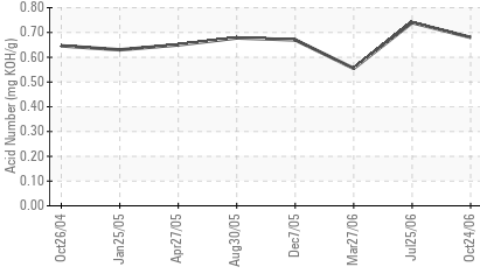


OIL ANALYSIS REPORT

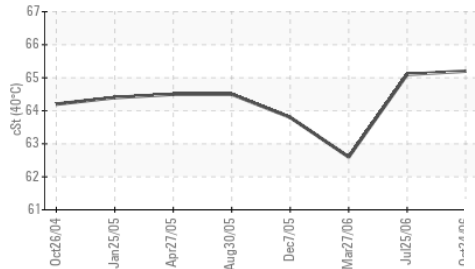
▲ Particle Trend



Acid Number



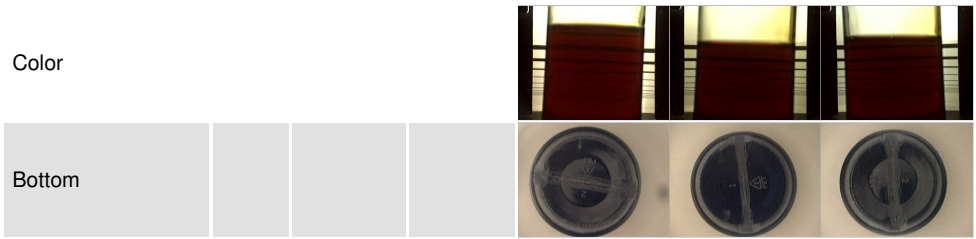
Viscosity @ 40°C



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	NEG	NEG	NEG
Free Water	scalar	Visual*	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	65.2	65.1	62.6

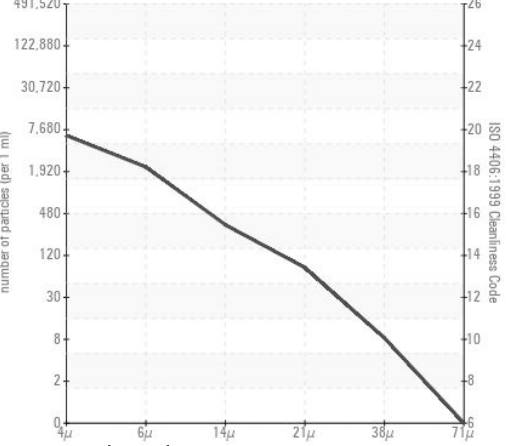
SAMPLE IMAGES	method	limit/base	current	history1	history2
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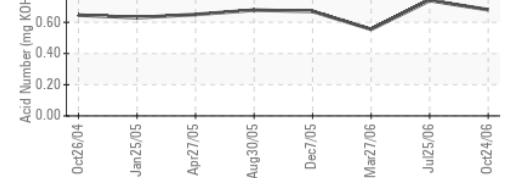
GRAPHS



▲ Particle Count



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
 Sample No. : WC22053390 Received : 25 Oct 2006
 Lab Number : 01338008 Tested : 27 Oct 2006
 Unique Number : 2332393 Diagnosed :
 Test Package : IND 2 (Additional Tests: SCREEN)

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 Detroit,
 US 76100
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 T: (311)555-1212
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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.