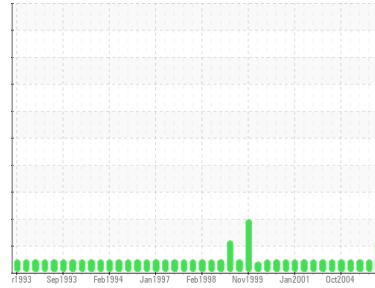




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area
Hydraulics
Machine Id
PRESS #2

Component
Hydraulic System
Fluid

SUNOCO SUNVIS 846 ISO 46 (550 GAL)

DIAGNOSIS

▲ Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

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 viscosity of the oil is higher than normal, possibly indicating the addition of a heavier grade of oil.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		WC22045392	WC22043231	WC22040606
Sample Date	Client Info		07 Dec 2005	30 Aug 2005	27 Apr 2005
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	NORMAL	NORMAL

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)	5	5	4
Chromium	ppm	ASTM D5185(m)	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	<1	0	<1
Titanium	ppm	ASTM D5185(m)	<1	0	0
Silver	ppm	ASTM D5185(m)	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	<1	<1	<1
Lead	ppm	ASTM D5185(m)	2	<1	<1
Copper	ppm	ASTM D5185(m)	14	16	15
Tin	ppm	ASTM D5185(m)	<1	<1	0
Vanadium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	1	2
Barium	ppm	ASTM D5185(m)	2	2	3
Molybdenum	ppm	ASTM D5185(m)	<1	0	<1
Manganese	ppm	ASTM D5185(m)	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	63	69	59
Calcium	ppm	ASTM D5185(m)	86	86	78
Phosphorus	ppm	ASTM D5185(m)	540	525	466
Zinc	ppm	ASTM D5185(m)	583	614	534
Sulfur	ppm	ASTM D5185(m)	2014	2104	2002

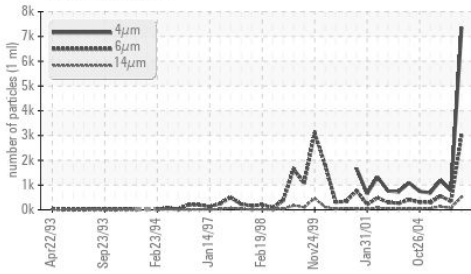
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	5	3	3
Sodium	ppm	ASTM D5185(m)	3	3	3
Potassium	ppm	ASTM D5185(m)	2	0	<1

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		7360	768	1192
Particles >6µm	ASTM D7647		▲ 3003	334	560
Particles >14µm	ASTM D7647		▲ 510	74	128
Particles >21µm	ASTM D7647		136	27	47
Particles >38µm	ASTM D7647		10	5	7
Particles >71µm	ASTM D7647		0	0	0
Oil Cleanliness	ISO 4406 (c)		▲ 20/19/16	17/16/13	17/16/14

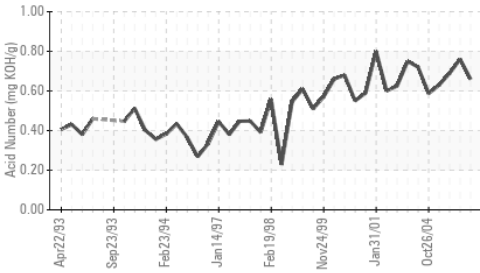
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.66	0.76	0.689

OIL ANALYSIS REPORT

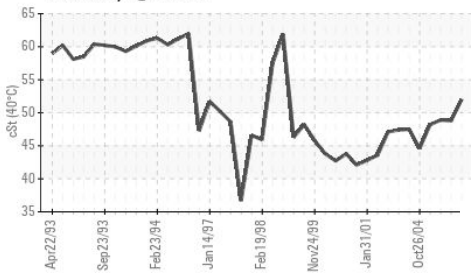
▲ Particle Trend



Acid Number



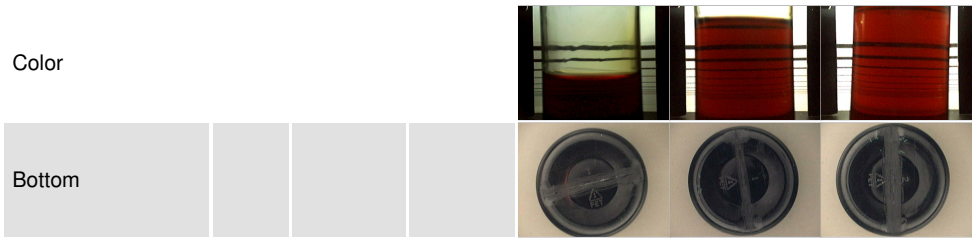
Viscosity @ 40°C



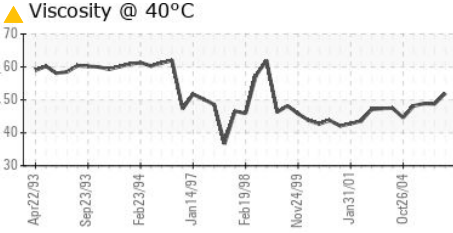
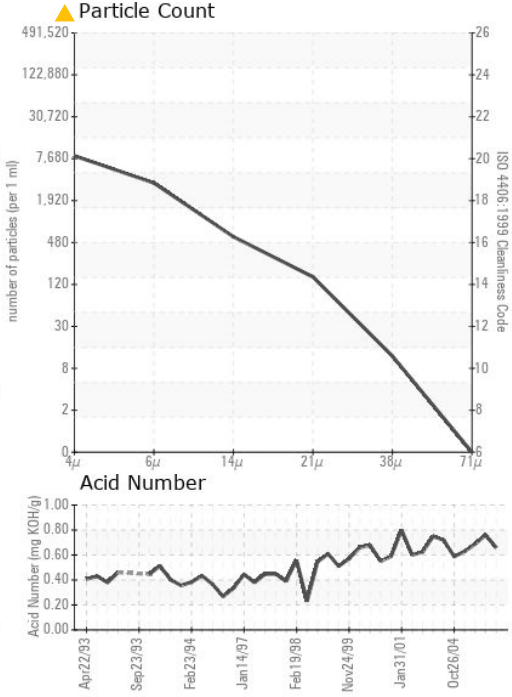
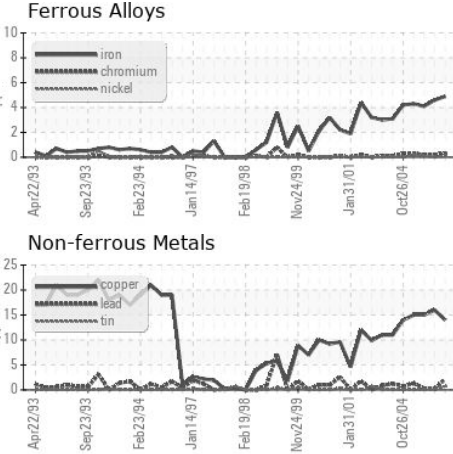
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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)	▲ 52.0	48.8	48.9

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC22045392
Lab Number : 01257855
Unique Number : 2124133
Test Package : IND 2 (Additional Tests: SCREEN)

ABC Manufacturing
 555 NORTH SERVICE ROAD EAST
 Detroit,
 US 76100
 Contact: Jim Smith
 jim.smith@abcmanufacturing.com
 T: (311)555-1212
 F: (311)555-1313

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.