

# **OIL ANALYSIS REPORT**

Industrial Mechanical/Hoists 17-SKHST9-LUBE-MTR-BRG

Component

Bearing Lube

**ESSO SPARTAN EP 220 (200 LTR)** 

# Sample Rating Trend **NORMAL**

## Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

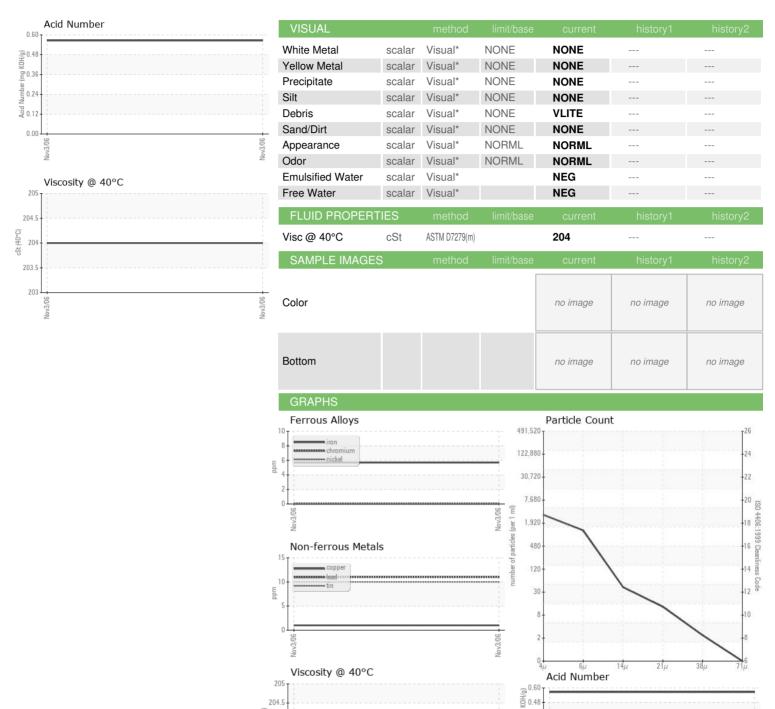
## **Fluid Condition**

The condition of oil is suitable for further service.

SAMPLE INFORM	MATION	method				history2
Sample Number		Client Info		WC0168138		
Sample Date		Client Info		03 Nov 2006		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	mm/basc	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	nnm	ASTM D5185(m)		6		
Chromium	ppm	ASTM D5185(m)		0		
Nickel	ppm	ASTM D5185(m)		0		
Titanium	ppm	ASTM D5185(III) ASTM D5185(m)		0		
	ppm					
Silver	ppm	ASTM D5185(m)		<1 0		
Aluminum	ppm	ASTM D5185(m)				
Lead	ppm	ASTM D5185(m)		11		
Copper	ppm	ASTM D5185(m)		1		
Tin	ppm	ASTM D5185(m)		10		
Vanadium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		18		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		0		
Calcium	ppm	ASTM D5185(m)		27		
Phosphorus	ppm	ASTM D5185(m)		242		
Zinc	ppm	ASTM D5185(m)		2		
Sulfur	ppm	ASTM D5185(m)		6724		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		<1		
Sodium	ppm	ASTM D5185(m)		0		
Potassium	ppm	ASTM D5185(m)		0		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		2757		
Particles >6μm		ASTM D7647		1083		
Particles >14µm		ASTM D7647		36		
Particles >21µm		ASTM D7647		11		
Particles >38µm		ASTM D7647		2		
Particles >71µm		ASTM D7647		0		
Oil Cleanliness		ISO 4406 (c)		19/17/12		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.566		



## **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number **Unique Number** 

: 01340378 : 2334763

204

203

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0168138

Validity of results and interpretation are based on the sample and information as supplied.

Received Diagnosed Diagnostician

Test Package : IND 2 (Additional Tests: PrtCount, SCREEN, TAN Man)

: 06 Nov 2006 : 10 Nov 2006

€ 0.36

은 0.24 0.12

0.00

Vale - Creighton Mine CREIGHTON MINE MNTCE. (PLANT 17) COPPER CLIFF, ON

CA P0M 1N0 Contact: Igor Bozhyk igor.bozhyk@vale.com

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.

T: (705)682-7009 F: x: