

OIL ANALYSIS REPORT

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

Center Bearing Lube

ESSO SPARTAN EP 220 (200 LTR)

Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

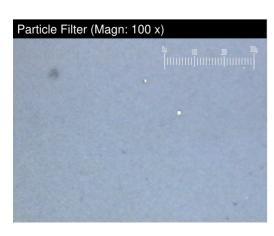
Contamination

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.

			N	lov2006		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0168166		
Sample Date		Client Info		04 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		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)		5		
Chromium	ppm	ASTM D5185(m)		0		
Nickel	ppm	ASTM D5185(m)		0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)		0		
Lead	ppm	ASTM D5185(m)		11		
Copper	ppm	ASTM D5185(m)		<1		
Tin	ppm	ASTM D5185(m)		11		
Vanadium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		19		
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)		24		
Phosphorus	ppm	ASTM D5185(m)		247		
Zinc	ppm	ASTM D5185(m)		<1		
Sulfur	ppm	ASTM D5185(m)		6843		
CONTAMINANT	S	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 CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >6µm		ASTM D7647		694		
Particles >14µm		ASTM D7647		78		
Particles >21µm		ASTM D7647		4		
Darticles : 20um		ACTM D7047		•		



Particles >38µm

Particles >71µm

Oil Cleanliness

Acid Number (AN)

FLUID DEGRADATION

ASTM D7647

ASTM D7647

ISO 4406 (c)

mg KOH/g ASTM D974*

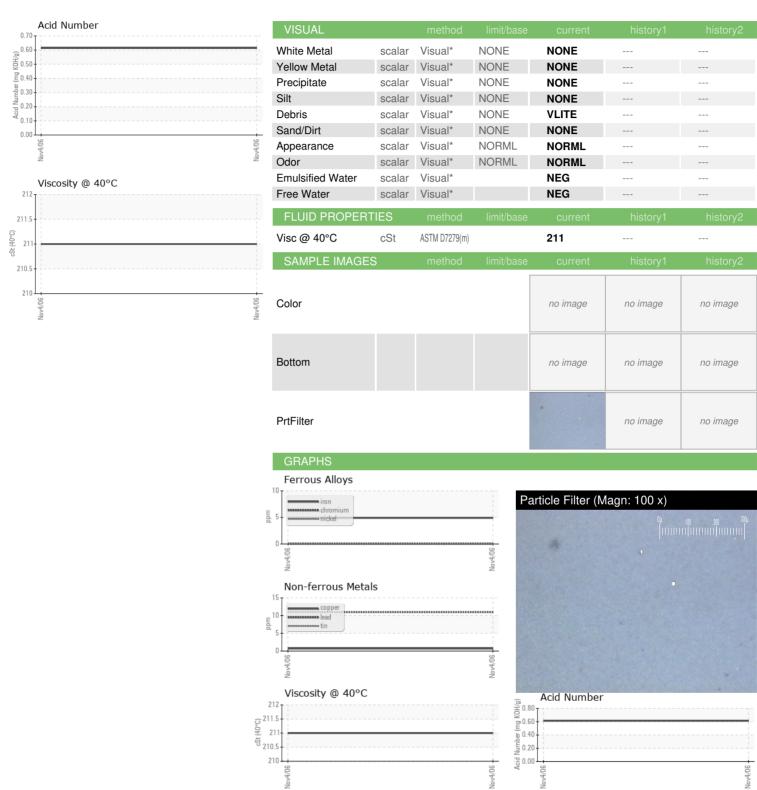
0

17/13

0.614



OIL ANALYSIS REPORT







Laboratory **Unique Number**

Sample No. Lab Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : 01340380

: WC0168166 : 2334765

Received Diagnosed Diagnostician

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

: 06 Nov 2006 : 10 Nov 2006

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

CA P0M 1N0 Contact: Igor Bozhyk

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.

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