

OIL ANALYSIS REPORT

Sample Rating Trend



Area RAW MATS Machine Id 2 BALL MILL Component

Gearbox Fluid MOBIL SHC 630 (29 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

มีเกรือ17 Sep2017 Dec2017 Mar2018 Mar2018 Mar2018 New2018 Feb2019									
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		WC04685137	WC0312567	WCI2351116			
Sample Date		Client Info		29 Mar 2019	18 Feb 2019	15 Jan 2019			
Machine Age	days	Client Info		0	0	0			
Oil Age	days	Client Info		0	0	0			
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd			
Sample Status				ATTENTION	ABNORMAL	ABNORMAL			
WEAR METALS		method	limit/base	current	history1	history2			
PQ		ASTM D8184		14	15	14			
Iron	ppm	ASTM D5185m	>200	2	1	2			
Chromium	ppm	ASTM D5185m	>15	0	0	<1			
Nickel	ppm	ASTM D5185m	>15	<1	0	<1			
	ppm	ASTM D5185m		0	0	<1			
	ppm	ASTM D5185m		<1	0	<1			
	ppm	ASTM D5185m	>25	<1	<1	<1			
	ppm	ASTM D5185m		0	0	<1			
	ppm	ASTM D5185m	>200	0	0	<1			
	ppm	ASTM D5185m	>25	0	0	<1			
	ppm	ASTM D5185m		0	0	0			
	ppm	ASTM D5185m		0	0	<1			
Cadmium	ppm	ASTM D5185m		0	0	<1			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m		0	<1	<1			
Barium	ppm	ASTM D5185m		0	0	0			
	ppm	ASTM D5185m		7	7	7			
-	ppm	ASTM D5185m		0	<1	<1			
	ppm	ASTM D5185m		0	0	0			
	ppm	ASTM D5185m		0	0	0			
· .	ppm	ASTM D5185m		453	382	421			
Zinc	ppm	ASTM D5185m		8	4	0			
Sulfur	ppm	ASTM D5185m		87	88	70			
CONTAMINANTS		method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>50	28	39	26			
Sodium	ppm	ASTM D5185m		1	0	0			
	ppm	ASTM D5185m	>20	<1	<1	0			
	%	ASTM D6304	>0.2	0.001	0.001	0.002			
ppm Water	ppm	ASTM D6304	>2000	10	10	20			
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2			
Particles >4µm		ASTM D7647	>1300	A 2227	▲ 6836	▲ 8602			
Particles >6µm		ASTM D7647	>320	a 394	9 29	1616			
Particles >14µm		ASTM D7647	>40	23	21	1 17			
Particles >21µm		ASTM D7647	>10	7	5	A 30			
Particles >38µm		ASTM D7647	>3	1	0	1			
Particles >71µm		ASTM D7647	>3	0	0	0			
Oil Cleanliness		ISO 4406 (c)	>17/15/12	18/16/12	▲ 20/17/12	▲ 20/18/14			



🔺 Particle Trend

Water (KF)

Abnorma

Nov1 PQ /larl

an15/19

Feb18/19

20 (1 ml)

number of particles (

0

2000

250 200 Se

150 0

> 100 50

10000

600

4000

200

250 240

230

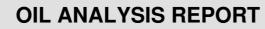
210

200

19

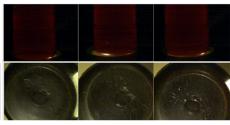
(0-0+) 220

Water (ppm)

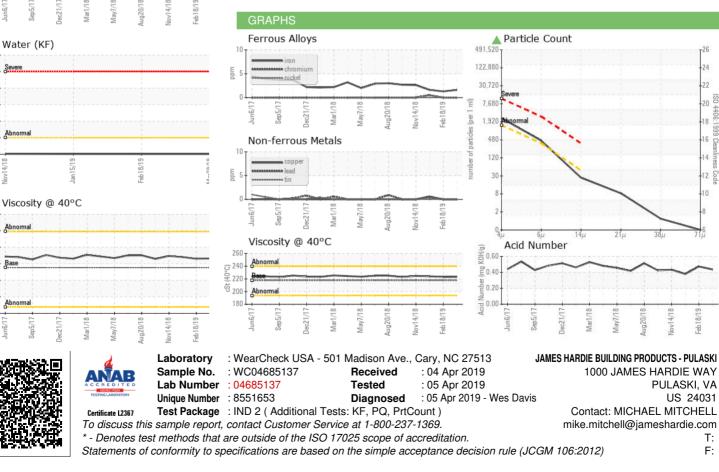


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.436	0.473	0.379
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPER	ΓIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	217.7	223.2	223.0	224.0
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color



Bottom



Contact/Location: MICHAEL MITCHELL - JAMPUL