

## **OIL ANALYSIS REPORT**

Sample Number

kms

kms

Sample Date

Machine Age

Oil Changed

Oil Age

### Area [Z20096] **COMBIE CRANE JER267 - SAMPLE 3**

**Hydraulic System** 

AW HYDRAULIC OIL ISO 46 (600 LTR)

#### DIAGNOSIS

#### Recommendation

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.

#### A Wear

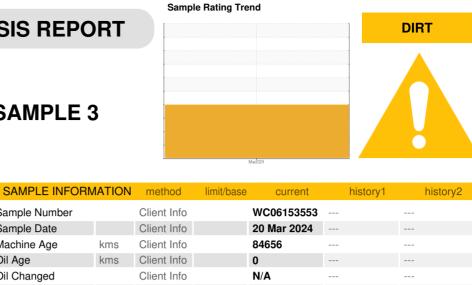
The iron level is abnormal. The chromium level is abnormal.

#### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The amount and size of particulates present in the system are acceptable.

#### Fluid Condition

The condition of the oil is acceptable for the time in service.



Sample Status				ABNORMAL		
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<u> </u>		
Chromium	ppm	ASTM D5185m	>10	<u> </u>		
Nickel	ppm	ASTM D5185m	>10	1		
Titanium	ppm	ASTM D5185m		2		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	<mark> </mark> 29		
Lead	ppm	ASTM D5185m	>10	2		
Copper	ppm	ASTM D5185m	>75	8		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0		
Barium	ppm	ASTM D5185m	5	2		
Molybdenum	ppm	ASTM D5185m	5	<1		

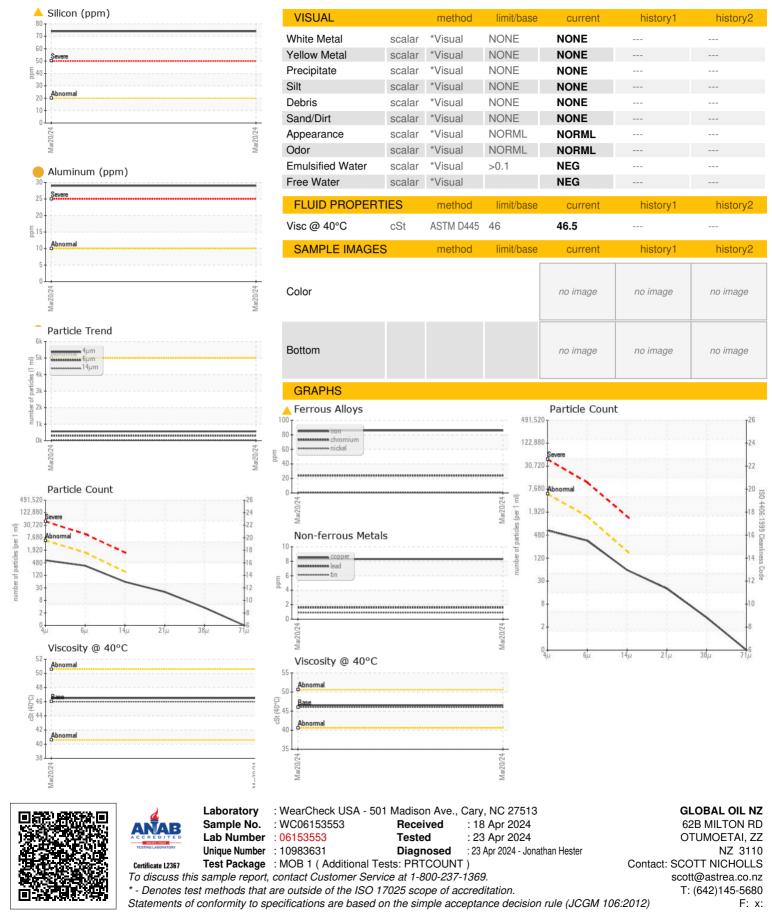
Molybdenum	ppm	ASTM D5185m	5	<1	 
Manganese	ppm	ASTM D5185m		2	 
Magnesium	ppm	ASTM D5185m	25	7	 
Calcium	ppm	ASTM D5185m	200	174	 
Phosphorus	ppm	ASTM D5185m	300	357	 
Zinc	ppm	ASTM D5185m	370	409	 
Sulfur	ppm	ASTM D5185m	2500	3017	 

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>4</b> 74		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	5		
FLUID CLEANLINESS		method	limit/base	current	history1	history2

Particles >4µm	ASTM D7647	>5000	557	 
Particles >6µm	ASTM D7647	>1300	303	 
Particles >14µm	ASTM D7647	>160	52	 
Particles >21µm	ASTM D7647	>40	17	 
Particles >38µm	ASTM D7647	>10	3	 
Particles >71µm	ASTM D7647	>3	0	 
Oil Cleanliness	ISO 4406 (c)	>19/17/14	16/15/13	 



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Contact/Location: SCOTT NICHOLLS - GLOBALNZ