

## **OIL ANALYSIS REPORT**

Sample Number

hrs

hrs

Sample Date

Machine Age

Oil Changed

Sample Status

Oil Age

### Area [Z20098] **COMBIE CRANE JER267 - SAMPLE 2**

**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

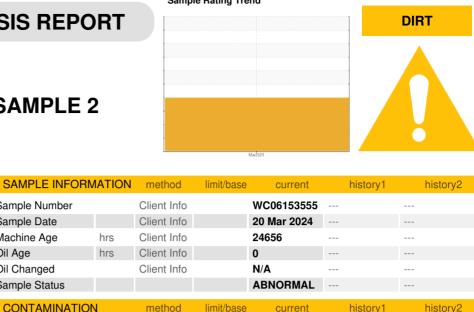
The iron level is abnormal. The chromium level is abnormal.

#### 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.



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	<b>6</b> 0		
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	🛑 19		
Lead	ppm	ASTM D5185m	>10	2		
Copper	ppm	ASTM D5185m	>75	6		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		

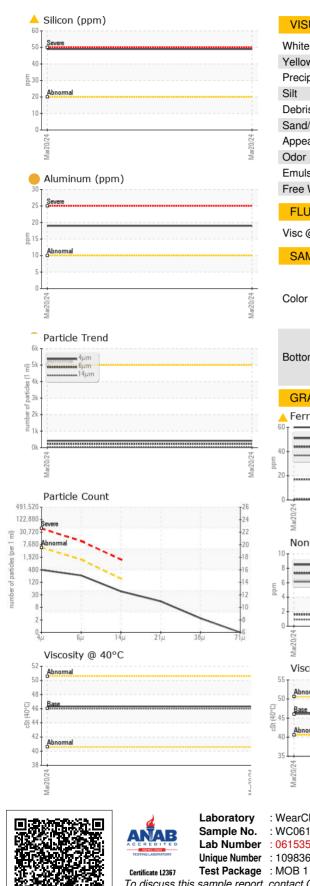
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0		
Barium	ppm	ASTM D5185m	5	2		
Molybdenum	ppm	ASTM D5185m	5	<1		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m	25	5		
Calcium	ppm	ASTM D5185m	200	113		
Phosphorus	ppm	ASTM D5185m	300	265		
Zinc	ppm	ASTM D5185m	370	290		
Sulfur	ppm	ASTM D5185m	2500	2132		

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>4</b> 9		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	4		
FLUID CLEANLINESS		method	limit/base	current	history1	history2

			000	 
Particles >4µm	ASTM D7647	>5000	418	 
Particles >6µm	ASTM D7647	>1300	227	 
Particles >14µm	ASTM D7647	>160	39	 
Particles >21µm	ASTM D7647	>40	13	 
Particles >38µm	ASTM D7647	>10	2	 
Particles >71µm	ASTM D7647	>3	0	 
Oil Cleanliness	ISO 4406 (c)	>19/17/14	16/15/12	 



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VISUAL		method	limit/base	current	history1	history2
Vhite Metal	scalar	*Visual	NONE	NONE		
ellow Metal	scalar	*Visual	NONE	NONE		
recipitate	scalar	*Visual	NONE	NONE		
ilt	scalar	*Visual	NONE	NONE		
ebris	scalar	*Visual	NONE	NONE		
and/Dirt	scalar	*Visual	NONE	NONE		
opearance	scalar	*Visual	NORML	NORML		
dor	scalar	*Visual	NORML	NORML		
mulsified Water	scalar	*Visual	>0.1	NEG		
ree Water	scalar	*Visual	20.1	NEG		
FLUID PROPER	TIES	method	limit/base	current	history1	history2
sc @ 40°C	cSt	ASTM D445	46	46.3		
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
olor				no image	no image	no image
				9-		
ottom				na imaga	200000	no imore
Silom				no image	no image	no image
GRAPHS						
Ferrous Alloys				Particle Coun	<del>F</del>	
errous Alloys			491,520		L	T <sup>26</sup>
iron chromium			122.000			
***********************			122,880	Severe		+24
1			30,720			-22
			7 680	Abnormal		-20
24			24 ml)	Abholma		20
Mar20/24			Mar20/24 \$ (per 1 ml	·		-18
≥ Non-ferrous Meta	lc.		Among			-20 -18 -16 -14
	15		Lie d Jo			10
copper			ja 120			-14
tin			30	1		-12
			3	-		10
+ +			24+	ļ		
Marzu/24			ar20/			
			≥ (	4μ 6μ	14µ 21µ	38µ 71µ
Viscosity @ 40°C				1200 07505		
Abnormal						
Base						
Abnormal						
/24			1/24 -			
Mar20/24			Mar20/24			
-			~			
arCheck USA - 50	1 Madisc	on Ave., Carv	, NC 27513		G	LOBAL OIL N
06153555	Rece	ived : 18	3 Apr 2024			2B MILTON RI
53555	Teste		3 Apr 2024		0	TUMOETAI, Z
83633			Apr 2024 - Jonat	han Hester		NZ 311
B 1 (Additional To			<b>`</b>			OTT NICHOLLS
act Customer Serv		300-237-1369 200 of 200roc				tt@astrea.co.n

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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