

**WEAR** CONTAMINATION **FLUID CONDITION**  **ABNORMAL ABNORMAL NORMAL** 

## CASE MAGNUM 220 JJAM0220TKRH01067

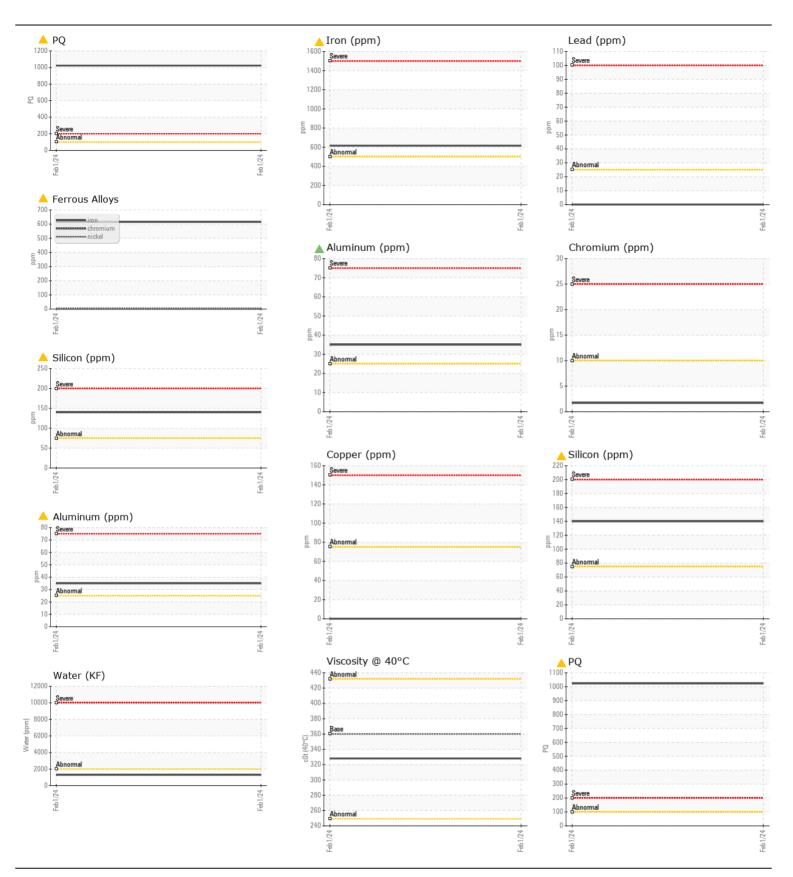
Component Front Left Planetary

GEAR OIL SAE 90W140 (5 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JCB005581		
	Sample Date		Client Info		01 Feb 2024		
	Machine Age	hrs	Client Info		6983		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	PQ		ASTM D8184		<b>1023</b>		
WEAR		nnm		· E00			
Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.	Iron	ppm	ASTM D5185m		<u>^</u> 615		
	Chromium	ppm	ASTM D5185m		2		
	Nickel Titanium	ppm	ASTM D5185m ASTM D5185m	>10	<1 2		
	Silver	ppm	ASTM D5185m				
	Aluminum	ppm	ASTM D5185m	- 25	0		
		ppm			<b>▲</b> 35 0		
	Lead	ppm	ASTM D5185m ASTM D5185m		0		
	Copper	ppm	ASTM D5185m				
	Vanadium	ppm		>10	<1 0		
	White Metal	ppm	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
		scalar	visuai	INOINE			
CONTAMINATION  Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Silicon	ppm	ASTM D5185m	>75	<u> </u>		
	Potassium	ppm	ASTM D5185m	>20	10		
	Water	%	ASTM D6304	>0.2	0.130		
	ppm Water	ppm	ASTM D6304	>2000	1300		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	0.2%		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		8		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	400	249		
	Barium	ppm	ASTM D5185m		4		
	Molybdenum	ppm	ASTM D5185m	12	0		
	Manganese	ppm	ASTM D5185m		4		
	Magnesium	ppm	ASTM D5185m	12	5		
	Calcium	ppm	ASTM D5185m	150	50		
	Phosphorus	ppm	ASTM D5185m	1650	1072		
	Zinc	ppm	ASTM D5185m	125	32		
	Sulfur	ppm	ASTM D5185m	22500	19229		

Visc @ 40°C cSt

ASTM D445 360

328





Certificate L2367

Laboratory Sample No. **Lab Number** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JCB005581

: 06083921

Received **Tested** Unique Number : 10871366 Diagnosed : 08 Feb 2024

: 09 Feb 2024

: 11 Feb 2024 - Don Baldridge Test Package : MOB 1 ( Additional Tests: KF, PQ )

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)

N & S TRACTOR CO INC - STOCKTON

1340 W CHARTER WAY STOCKTON, CA

US 95203 Contact: CHAD VAN RYS

chadrys@nstractor.com

T: (209)639-9118 F: (209)946-5710