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

Machine Id

## **OSHKOSH 4409**

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0893877		
	Sample Date		Client Info		29 Jan 2024		
	Machine Age	mls	Client Info		25456		
	Oil Age	mls	Client Info		0		
	Filter Age	mls	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
VEAR	Iron	ppm	ASTM D5185m	>100	2		
	Chromium	ppm	ASTM D5185m		- <1		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		<1		
	Lead	ppm	ASTM D5185m	>40	0		
	Copper	ppm	ASTM D5185m		0		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm		>25	2		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	6.1		
	Sulfation	Abs/.1mm	*ASTM D7415		17.9		
	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	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2		
	Boron	ppm	ASTM D5185m		2		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		58		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	450	937		
	Calcium	ppm	ASTM D5185m		1033		
	Phosphorus	ppm	ASTM D5185m		1062		
	Zinc	ppm		1350	1234		
	Sulfur	ppm	ASTM D5185m		2997		
	Oxidation	Abs/.1mm	*ASTM D7414		13.9		
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.8		
	Visc @ 100°C	cSt	ASTM D445		14.1		





Certificate L2367

Laboratory Sample No.

Lab Number : 06085868 Unique Number : 10873313

: WC0893877

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Feb 2024 **Tested** 

Diagnosed Test Package : MOB 1 ( Additional Tests: TBN )

: 13 Feb 2024 : 13 Feb 2024 - Wes Davis

**CONCRETE SERVICE CO - FAY BLOCK** 161 BUILDERS BLVD FAYETTEVILLE, NC US 28301

Contact: Service Manager

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)

T:

F: