

WEAR CONTAMINATION FLUID CONDITION

NORMAL
ATTENTION
NORMAL



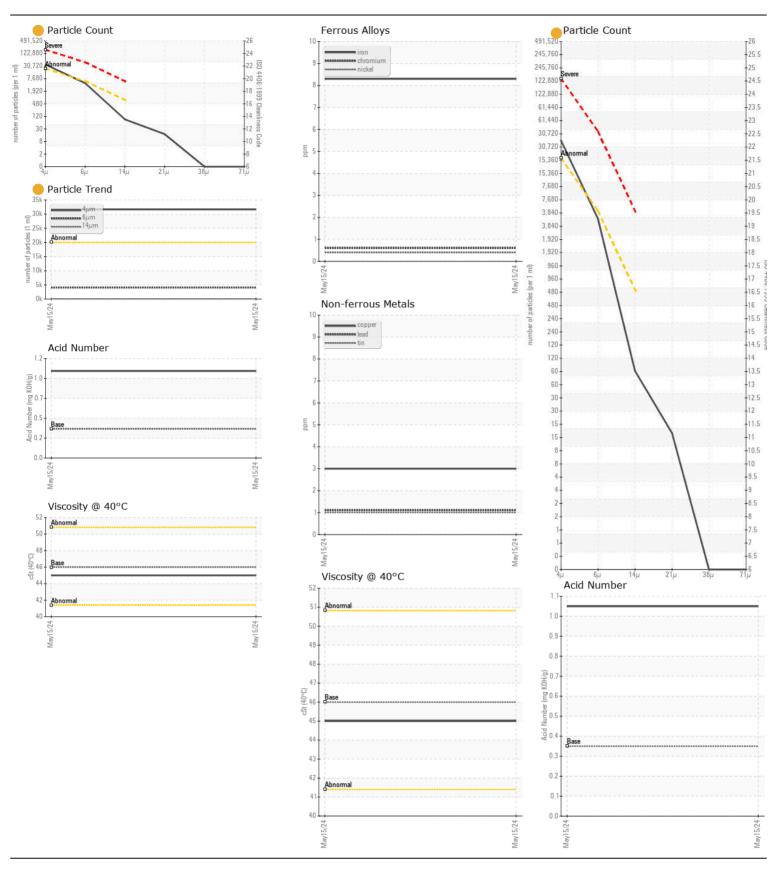
Machine Id

151628 LIEBHERR LH60-24 151628

Hydraulic System

SHELL TELLUS S2 MX 46 (--- QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the	Sample Number		Client Info		DJJ0021030		
	Sample Date		Client Info		15 May 2024		
next service interval to monitor.	Machine Age	hrs	Client Info		675		
	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				ATTENTION		
WEAD							
WEAR	Iron	ppm	ASTM D5185m		8		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>10	<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	. E	<1		
	Aluminum	ppm	ASTM D5185m		2 1		
	Lead	ppm	ASTM D5185m ASTM D5185m		3		
	Copper Tin	ppm	ASTM D5185m		3 1		
	Vanadium	ppm	ASTM D5185m	>0	ا <1		
	White Metal	ppm scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
		Scalai	Visuai		HONL		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>15	5		
	Potassium	ppm	ASTM D5185m	>20	2		
There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.	Water		WC Method	>0.1	NEG		
	Particles >4µm		ASTM D7647	>20000	31640		
	Particles >6µm		ASTM D7647	>5000	4061		
	Particles >14µm		ASTM D7647	>640	76		
	Particles >21µm		ASTM D7647	>160	15		
	Particles >38µm		ASTM D7647	>40	0		
	Particles >71μm		ASTM D7647	>10	0		
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	22/19/13		
	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	>0.1	NEG		
ELUID CONDITION	Codium	nnm	ACTM DE10Em		.4		
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m	0	<1 2		
The AN level is acceptable for this fluid. The condition of the oils	Barium	ppm ppm	ASTM D5185m		0		
additive package is suitable for further service.	Molybdenum	ppm	ASTM D5185m		<1		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		9		
	Calcium	ppm	ASTM D5185m		1257		
	Phosphorus	ppm	ASTM D5185m		531		
	Zinc	ppm	ASTM D5185m	325	665		
	Sulfur	ppm	ASTM D5185m		4089		
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.05		
	Visc @ 40°C	cSt	ASTM D445		45.0		
	1100 @ 70 0	301	AOTW DTTO	10.0	73.0		





Certificate L2367

Laboratory Sample No.

Lab Number : 06189602 Unique Number : 11046354

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DJJ0021030 Test Package : MOBCE

Received **Tested** Diagnosed

: 23 May 2024 : 03 Jun 2024

: 03 Jun 2024 - Jonathan Hester

THE DAVID J JOSEPH CO 801 GERDAU AMERISTEEL RD JACKSON, TN US 38305

Contact: TOMMY WILLIAMSON

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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)

F: (731)424-5026