

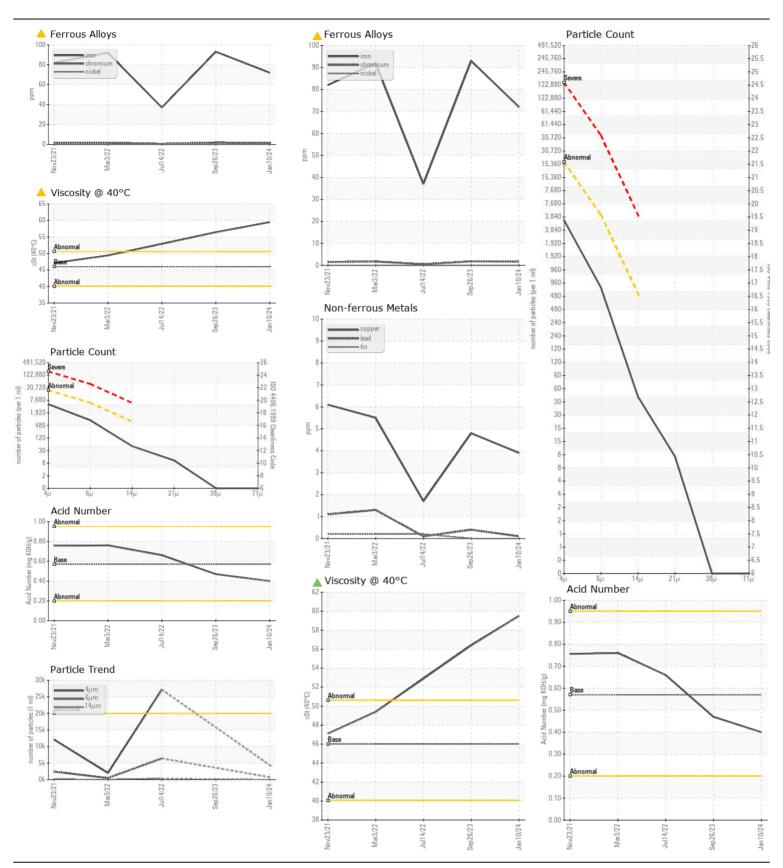
WEAR CONTAMINATION **FLUID CONDITION**

ABNORMAL NORMAL **ATTENTION**



LIEBHERR LH30M 117414-1253

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMINE TO A TION	Sample Number	JOIN	Client Info	ZITTIQ PAQIT	LH0272892	,	-
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		10 Jan 2024		14 Jul 2022
	Machine Age	hrs	Client Info		8285	0	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	N/A	N/A
	Filter Changed		Client Info		Not Changd	N/A	N/A
	Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	<u>>50</u>	<u>^</u> 72	△ 93	37
WLAN	Chromium	ppm	ASTM D5185m		2	2	<1
The iron level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	72	0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>2	1	0	0
	Lead	ppm	ASTM D5185m		<1	<1	<1
	Copper	ppm	ASTM D5185m		4	5	2
	Tin	ppm	ASTM D5185m		0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>17	2	2	1
33117 timit, tri31t	Potassium	ppm	ASTM D5185m	>20	<1	<1	0
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	>20000	4365		27155
	Particles >6µm		ASTM D7647	>5000	745		▲ 6381
	Particles >14µm		ASTM D7647	>640	43		352
	Particles >21µm		ASTM D7647	>160	9		61
	Particles >38μm		ASTM D7647	>40	0		4
	Particles >71μm		ASTM D7647		0		0
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/17/13		22/20/16
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	LIGHT	▲ HEAVY	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	0.2%	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	0	0
	Boron	ppm	ASTM D5185m	5	0	0	<1
The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.	Barium	ppm	ASTM D5185m	5	0	0	0
	Molybdenum	ppm	ASTM D5185m	5	0	<1	<1
	Manganese	ppm	ASTM D5185m		<1	2	<1
	Magnesium	ppm	ASTM D5185m		56	48	9
	Calcium	ppm	ASTM D5185m		143	158	315
	Phosphorus	ppm	ASTM D5185m		296	282	170
	Zinc	ppm	ASTM D5185m	370	362	366	198
	Sulfur	ppm	ASTM D5185m		1093	1385	968
	Acid Number (AN)		ASTM D8045	0.57	0.40	0.47	0.66
	Visc @ 40°C	cSt	ASTM D445	46	59.5	▲ 56.4	\$ 52.9





Certificate L2367

Report Id: SPASPALH [WUSCAR] 06062566 (Generated: 01/19/2024 11:15:07) Rev: 1

Laboratory Sample No. **Unique Number**

Lab Number

: LH0272892 : 06062566 : 10833948 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 17 Jan 2024 Recieved : 19 Jan 2024 Diagnosed Diagnostician

: Jonathan Hester

SPARTAN RECYCLING

3071 HOWARD ST SPARTANBURG, SC US 29303

T:

F:

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)