



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH30 101514-1253
Component
Transmission
Fluid
VALVOLINE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0285571	LH0217627	LH0166344
Sample Date		Client Info		28 Jun 2024	22 Mar 2023	14 Jul 2022
Machine Age	hrs	Client Info		12588	10552	7420
Oil Age	hrs	Client Info		1000	2000	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>148	31	38	32
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	2	2	4
Lead	ppm	ASTM D5185m	>203	0	1	<1
Copper	ppm	ASTM D5185m	>520	118	151	161
Tin	ppm	ASTM D5185m	>7	0	1	1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	▲ MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

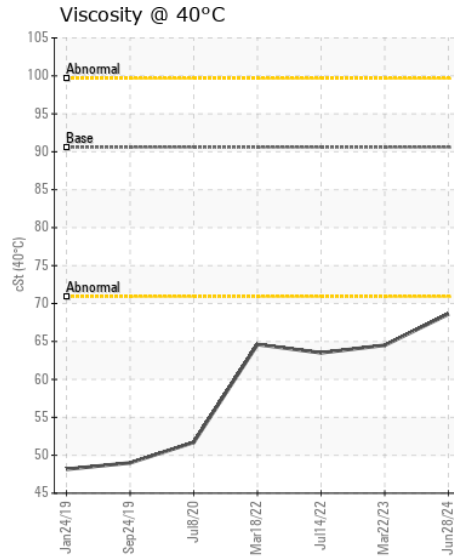
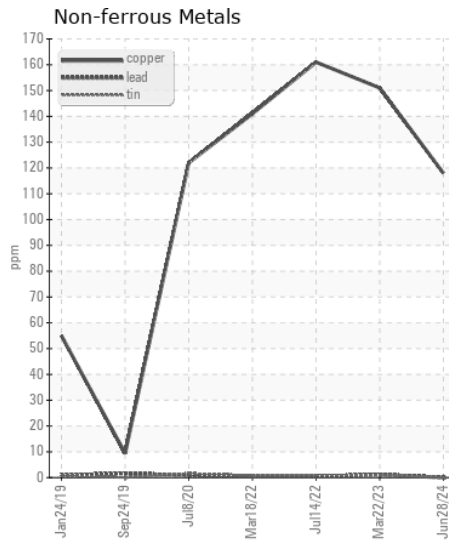
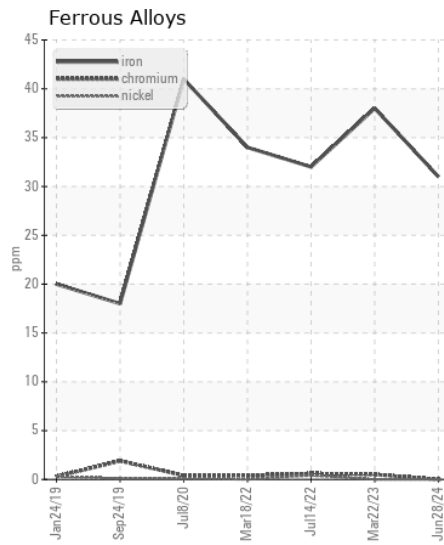
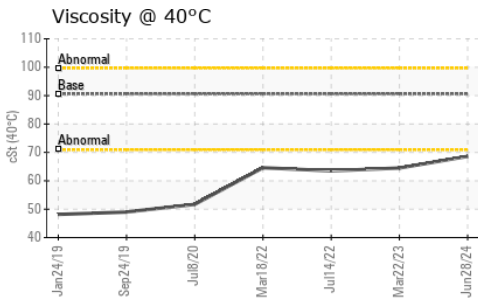
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>15	8	11	7
Potassium	ppm	ASTM D5185m	>20	<1	0	2
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	NEG	NEG

FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		7	8	9
Boron	ppm	ASTM D5185m	39	65	38	61
Barium	ppm	ASTM D5185m	1	<1	0	2
Molybdenum	ppm	ASTM D5185m	49	55	24	40
Manganese	ppm	ASTM D5185m	1	8	11	10
Magnesium	ppm	ASTM D5185m	616	51	61	95
Calcium	ppm	ASTM D5185m	1554	1904	1408	2191
Phosphorus	ppm	ASTM D5185m	899	946	698	978
Zinc	ppm	ASTM D5185m	1069	945	649	1099
Sulfur	ppm	ASTM D5185m	2624	8532	11404	4589
Visc @ 40°C	cSt	ASTM D445	90.6	68.6	64.5	63.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LH0285571
Lab Number : 06227988
Unique Number : 11111481
Test Package : CONST

Received : 03 Jul 2024
Tested : 05 Jul 2024
Diagnosed : 07 Jul 2024 - Don Baldrige

SPARTAN RECYCLING
 3071 HOWARD ST
 SPARTANBURG, SC
 US 29303

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)

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