



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
555174 LIEBHERR LH40M 100888-1215
 Component
Gearbox
 Fluid
LIEBHERR GEAR BASIC 90 LS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0023155	DJJ0023165	DJJ026125
Sample Date		Client Info		10 Jul 2024	19 Mar 2024	19 Nov 2021
Machine Age	hrs	Client Info		5124	4853	2290
Oil Age	hrs	Client Info		250	250	250
Filter Age	hrs	Client Info		0	250	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	8	8	26
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	<1
Lead	ppm	ASTM D5185m	>50	0	0	<1
Copper	ppm	ASTM D5185m	>200	<1	0	<1
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

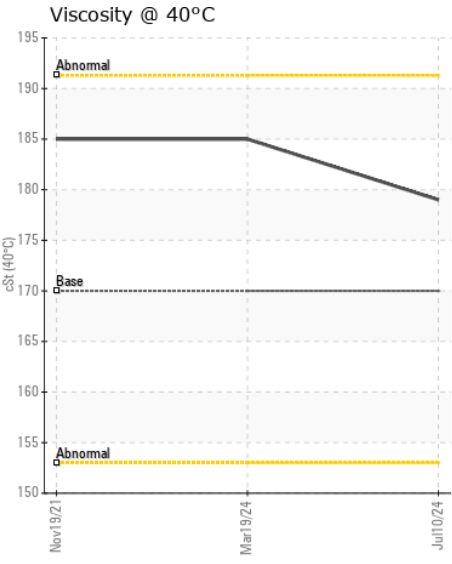
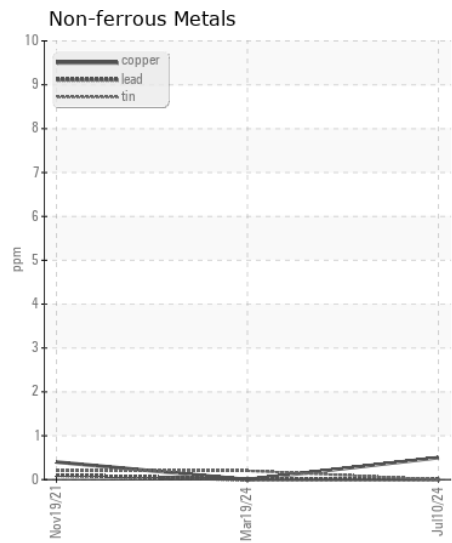
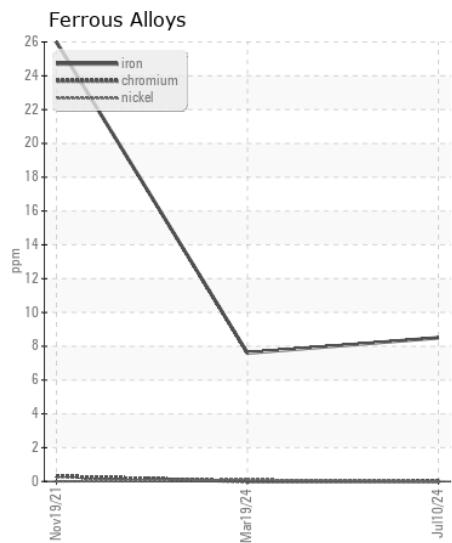
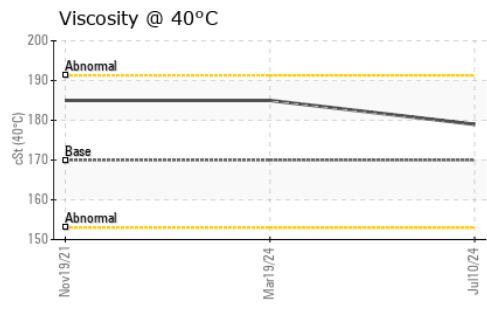
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	4	7	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	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	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	2	3
Boron	ppm	ASTM D5185m	0	3	10	58
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	<1	2	5	4
Calcium	ppm	ASTM D5185m	<1	13	20	20
Phosphorus	ppm	ASTM D5185m	2143	2156	2229	2365
Zinc	ppm	ASTM D5185m	<1	48	66	25
Sulfur	ppm	ASTM D5185m	23468	27680	33145	23131
Visc @ 40°C	cSt	ASTM D445	170	179	185	185



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0023155 **Received** : 17 Jul 2024
Lab Number : 06239502 **Tested** : 18 Jul 2024
Unique Number : 11128336 **Diagnosed** : 18 Jul 2024 - Wes Davis
Test Package : CONST

TEXAS PORT RECYCLING - VICTORIA
 3105 ODEM STREET
 VICTORIA, TX
 US 77901
 Contact: Samuel Arevalo
 samuel.arevalo@texasportrecycling.com

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)