



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**AMR-St Joe**  
 Machine Id  
**115441 LIEBHERR LH50 115441**  
 Component  
**Transmission (Manual)**  
 Fluid  
**DIESEL ENGINE OIL SAE 5W30 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DJJ0018514</b>	DJJ0018540	DJJ0018538
Sample Date		Client Info		<b>18 Jun 2024</b>	10 Jan 2024	30 May 2023
Machine Age	hrs	Client Info		<b>1999</b>	1496	998
Oil Age	hrs	Client Info		<b>0</b>	496	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>14</b>	16	15
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>7	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>4</b>	4	5
Lead	ppm	ASTM D5185m	>45	<b>2</b>	<1	1
Copper	ppm	ASTM D5185m	>225	<b>30</b>	48	73
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

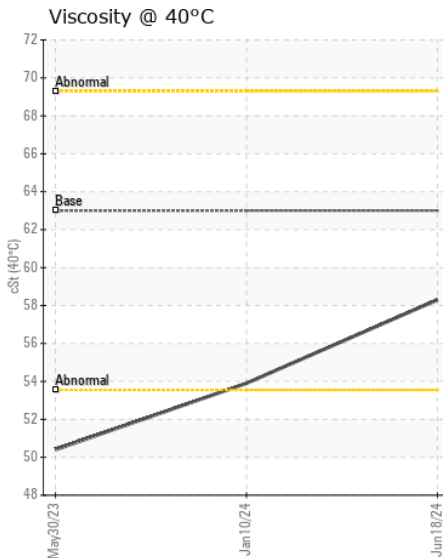
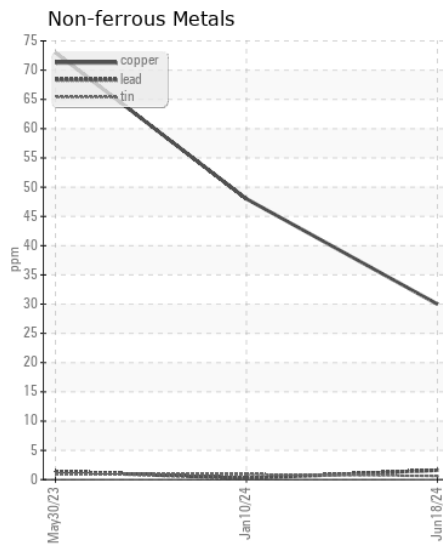
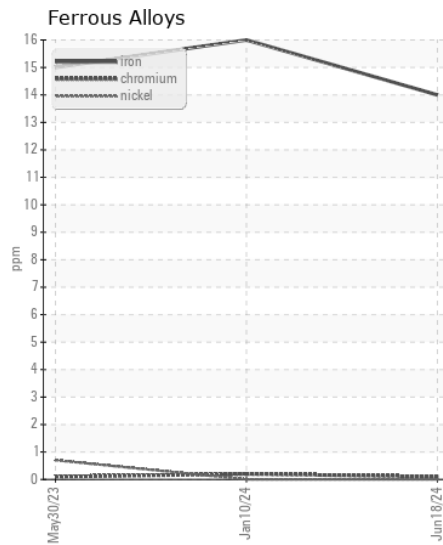
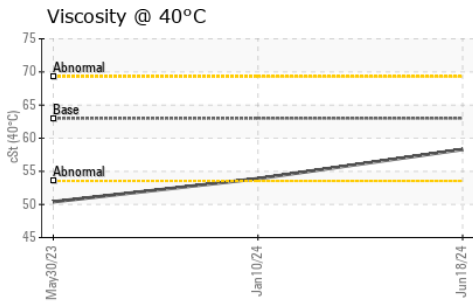
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>125	<b>4</b>	5	5
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	4	5
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>14</b>	15	29
Boron	ppm	ASTM D5185m	250	<b>168</b>	100	5
Barium	ppm	ASTM D5185m	10	<b>&lt;1</b>	10	0
Molybdenum	ppm	ASTM D5185m	100	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>6</b>	8	10
Magnesium	ppm	ASTM D5185m	450	<b>17</b>	12	7
Calcium	ppm	ASTM D5185m	3000	<b>3716</b>	3435	3575
Phosphorus	ppm	ASTM D5185m	1150	<b>1056</b>	1015	1093
Zinc	ppm	ASTM D5185m	1350	<b>1125</b>	1147	1201
Sulfur	ppm	ASTM D5185m	4250	<b>6313</b>	8079	11665
Visc @ 40°C	cSt	ASTM D445	63	<b>58.3</b>	53.9	50.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DJJ0018514  
**Lab Number** : 06222942  
**Unique Number** : 11101139  
**Test Package** : CONST

**Received** : 27 Jun 2024  
**Tested** : 28 Jun 2024  
**Diagnosed** : 30 Jun 2024 - Don Baldrige

**ADVANTAGE METALS RECYCLING - ST JOSEPH**  
 750 S 4TH ST  
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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)