CONST

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
120556-1216 LIEBHERR LH50M 120556-1216
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

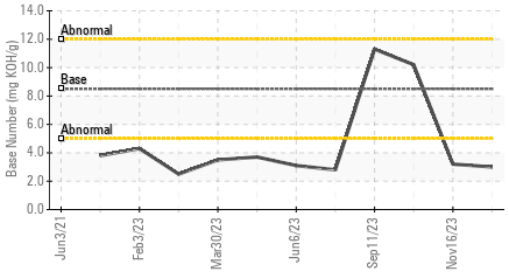
Sodium and/or potassium levels remain high.

FLUID CONDITION

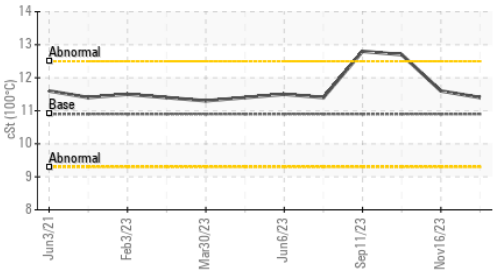
The BN level is low.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0022501	DJJ0022510	DJJ0022526
Sample Date		Client Info		03 Jan 2024	16 Nov 2023	11 Oct 2023
Machine Age	hrs	Client Info		9096	8743	8542
Oil Age	hrs	Client Info		250	225	250
Filter Age	hrs	Client Info		250	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>100	3	3	8
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	1
Aluminum	ppm	ASTM D5185m	>15	6	7	6
Lead	ppm	ASTM D5185m	>30	0	<1	6
Copper	ppm	ASTM D5185m	>125	7	10	14
Tin	ppm	ASTM D5185m	>5	0	<1	2
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>60	17	14	17
Potassium	ppm	ASTM D5185m	>20	▲ 471	▲ 309	▲ 120
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	▲ 0.06	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.5	7.2	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	21.6	18.8
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	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
Sodium	ppm	ASTM D5185m		4	5	10
Boron	ppm	ASTM D5185m	250	713	628	390
Barium	ppm	ASTM D5185m	10	0	11	95
Molybdenum	ppm	ASTM D5185m	100	1107	911	346
Manganese	ppm	ASTM D5185m		0	<1	2
Magnesium	ppm	ASTM D5185m	450	86	136	186
Calcium	ppm	ASTM D5185m	3000	462	628	2474
Phosphorus	ppm	ASTM D5185m	1150	10	105	707
Zinc	ppm	ASTM D5185m	1350	10	122	796
Sulfur	ppm	ASTM D5185m	4250	1904	2283	3040
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.5	22.1	16.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	▲ 3.0	▲ 3.2	10.2
Visc @ 100°C	cSt	ASTM D445	10.9	11.4	11.6	12.7

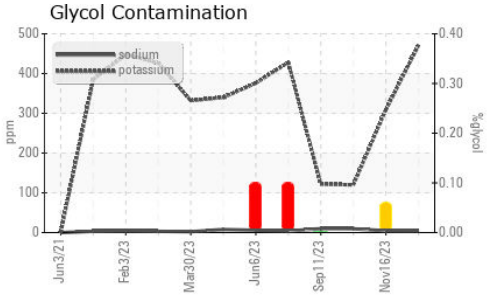
Base Number



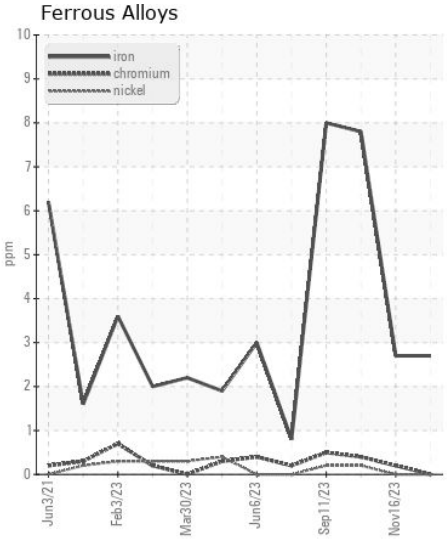
Viscosity @ 100°C



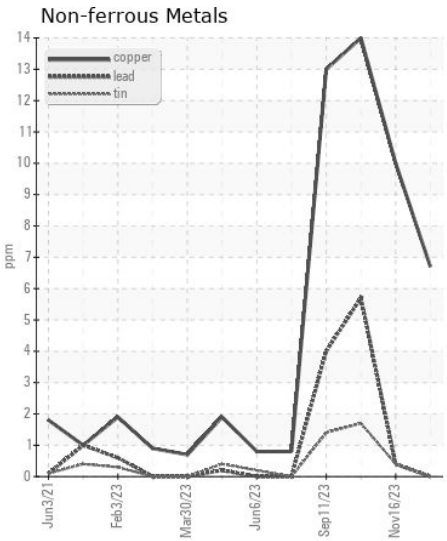
Glycol Contamination



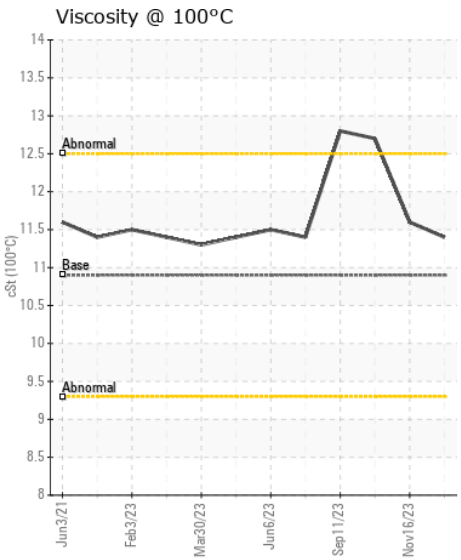
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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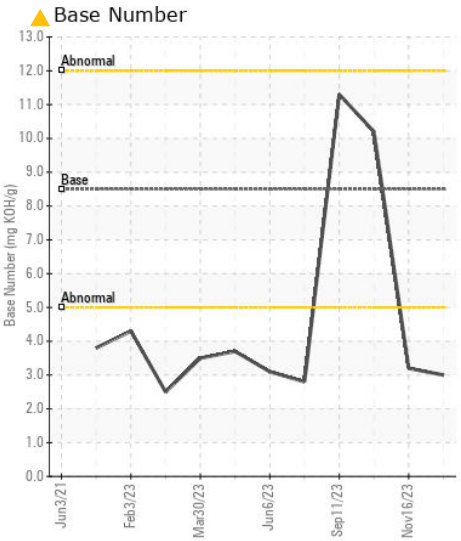

Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: DJJ0022501	**Recieved**	: 16 Jan 2024
Lab Number	: 06060666	**Diagnosed**	: 17 Jan 2024
Unique Number	: 10832048	**Diagnostician**	: Jonathan Hester
Test Package	: CONST (Additional Tests: TBN)		

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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