CONST

LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta
Machine Id
313
Component
Diesel Engine
Fluid
LYDEN 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

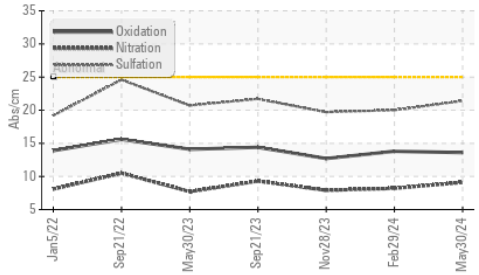
There is no indication of any contamination in the oil.

FLUID CONDITION

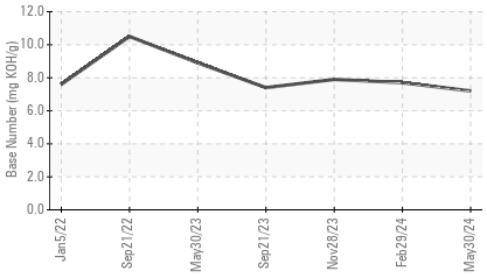
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0045750	LEC0047005	LEC0043945
Sample Date		Client Info		30 May 2024	29 Feb 2024	28 Nov 2023
Machine Age	mls	Client Info		569806	559588	547271
Oil Age	mls	Client Info		10218	12317	8779
Filter Age	mls	Client Info		10218	12317	8779
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	52	71	34
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		56	43	66
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	2	1
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	3	3	3
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>!20	8	10	12
Potassium	ppm	ASTM D5185m	>20	6	6	10
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.6	1	0.9
Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.2	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	20.0	19.7
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
Sodium	ppm	ASTM D5185m		13	8	6
Boron	ppm	ASTM D5185m		53	61	91
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		17	38	11
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		393	448	380
Calcium	ppm	ASTM D5185m		1572	1856	1888
Phosphorus	ppm	ASTM D5185m		914	1146	972
Zinc	ppm	ASTM D5185m		1130	1261	1180
Sulfur	ppm	ASTM D5185m		3526	4169	3798
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	13.8	12.7
Base Number (BN)	mg KOH/g	ASTM D2896		7.2	7.7	7.9
Visc @ 100°C	cSt	ASTM D445		13.1	13.0	12.9

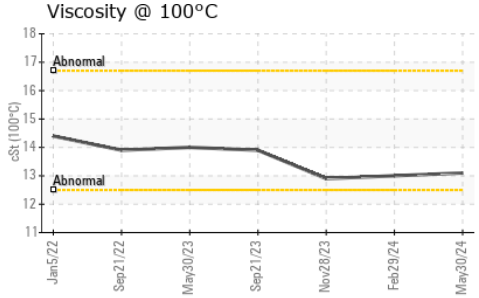
FT-IR (Direct Trend)



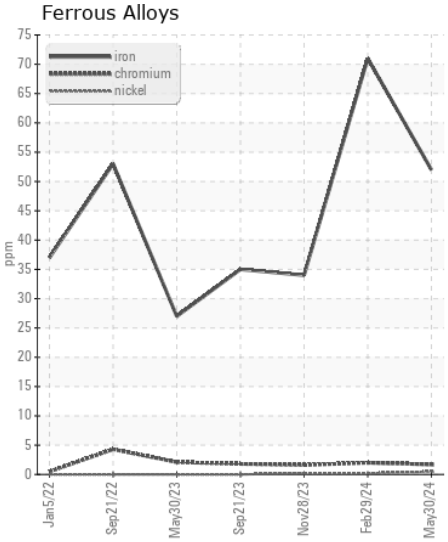
Base Number



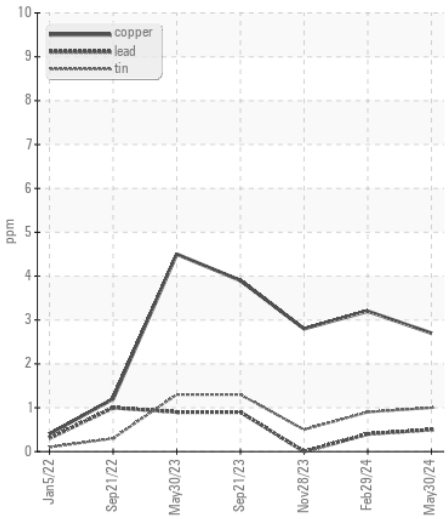
Viscosity @ 100°C



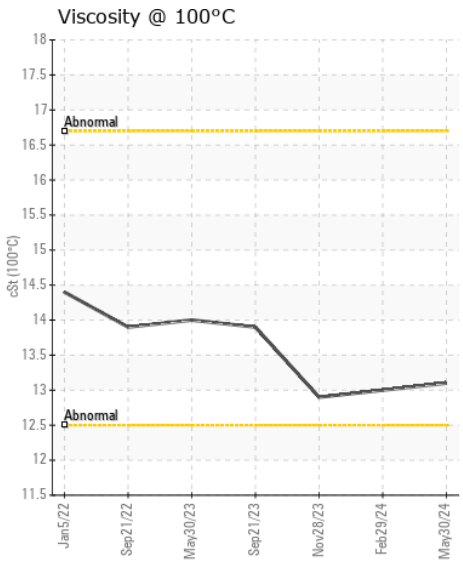
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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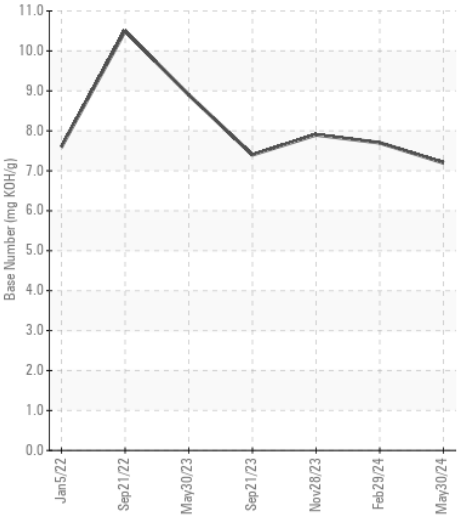

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0045750 **Received** : 18 Jun 2024
Lab Number : 06213113 **Tested** : 19 Jun 2024
Unique Number : 11085977 **Diagnosed** : 20 Jun 2024 - Don Baldridge
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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