LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta
Machine Id
BULK ENGINE OIL BULK ENGINE OIL MARIETTA BULK 15W40
Component
Bulk Fluid Tank
Fluid
CHEVRON DELO 400 LE 15W40 (1000 GAL)

RECOMMENDATION

This is a baseline read-out on the submitted sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0038770	LEC0031547	LEC0009032
Sample Date		Client Info		20 Feb 2023	20 May 2022	31 Mar 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Iron	ppm	ASTM D5185m		2	2	3
Chromium	ppm	ASTM D5185m		0	<1	0
Nickel	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	3	2
Aluminum	ppm	ASTM D5185m		<1	2	<1
Lead	ppm	ASTM D5185m		0	<1	<1
Copper	ppm	ASTM D5185m		0	<1	<1
Tin	ppm	ASTM D5185m		0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	LIGHT	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

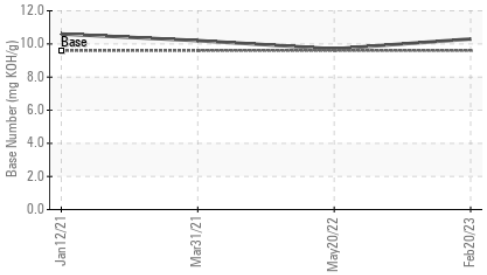
CONTAMINATION

Silicon	ppm	ASTM D5185m		7	6	7
Potassium	ppm	ASTM D5185m	>20	1	2	1
Water		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624		5.6	5.6	---
Sulfation	Abs/.1mm	*ASTM D7415		19.0	19.2	---
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		NEG	NEG	NEG

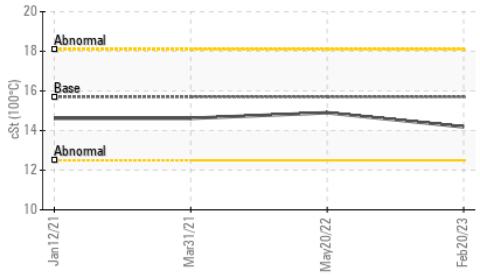
FLUID CONDITION

Sodium	ppm	ASTM D5185m		2	<1	2
Boron	ppm	ASTM D5185m		284	280	290
Barium	ppm	ASTM D5185m		0	0	3
Molybdenum	ppm	ASTM D5185m		226	217	236
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		699	769	799
Calcium	ppm	ASTM D5185m		1284	1442	1297
Phosphorus	ppm	ASTM D5185m	1200	826	869	822
Zinc	ppm	ASTM D5185m	1300	977	1048	905
Sulfur	ppm	ASTM D5185m	3200	2947	2784	2442
Oxidation	Abs/.1mm	*ASTM D7414		13.4	13.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	10.3	9.7	10.2
Visc @ 40°C	cSt	ASTM D445	125	111.7	118	120.6
Visc @ 100°C	cSt	ASTM D445	15.7	14.19	14.9	14.62
Viscosity Index (VI)	Scale	ASTM D2270	131	128	129	123

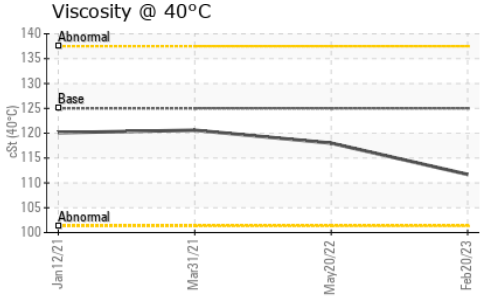
Base Number



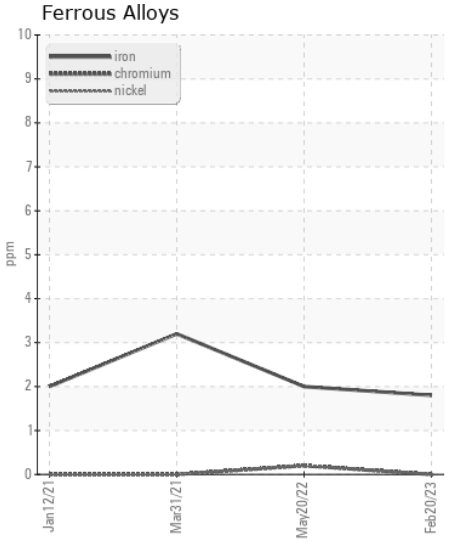
Viscosity @ 100°C



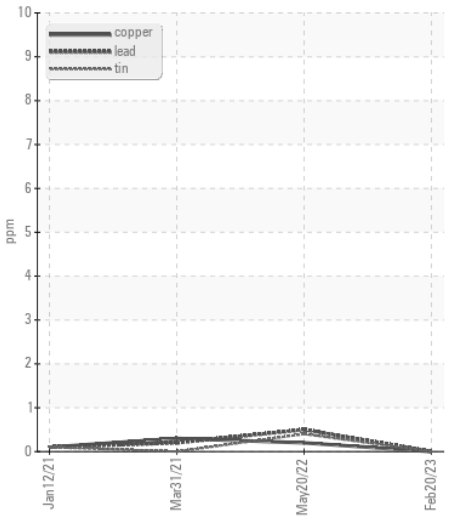
Viscosity @ 40°C



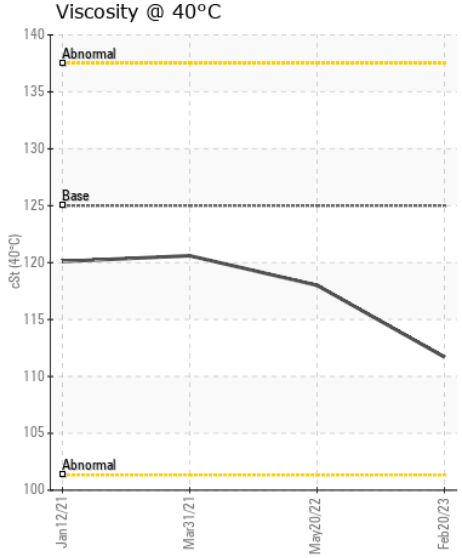
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



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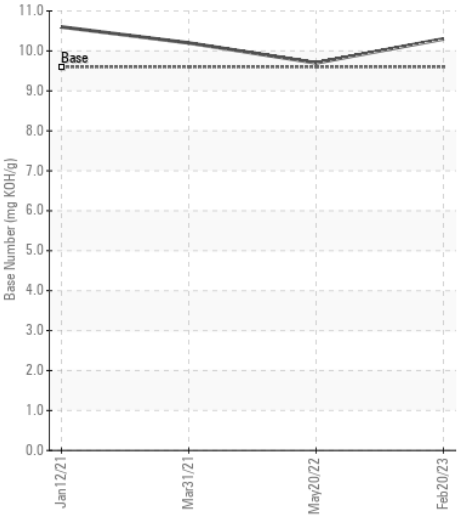

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0038770 **Received** : 22 Feb 2023
Lab Number : 05774332 **Tested** : 28 Feb 2023
Unique Number : 10348949 **Diagnosed** : 28 Feb 2023 - Jonathan Hester
Test Package : CONST (Additional Tests: FT-IR, KV100, PQ, TBN, VI)

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)

LESLIE EQUIPMENT COMPANY
105 TENNIS CENTER DR.
MARIETTA, OH
US 45750-9765
Contact: LEANNE KENDALL
KendalLeanne@lec1.com
T:
F: (740)373-5570