

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Store 9 - Marietta

518 Component Diesel Engine

LYDEN 15W40 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Description of the result of the second terms of the second terms	Sample Number		Client Info		LEC0049500	LEC0034598	LEC0034599
Resample at the next service interval to monitor.	Sample Date		Client Info		03 Apr 2024	09 Aug 2023	31 Mar 2023
	Machine Age	hrs	Client Info		2928	2169	1926
	Oil Age	hrs	Client Info		259	243	177
	Filter Age	hrs	Client Info		259	243	177
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron		ASTM D5185m	×100	11	14	11
WEAN	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	>4	65	56	71
	Silver	ppm		. 2	0	0	0
	Aluminum	ppm	ASTM D5185m	>3	2	4	2
	Lead	ppm	ASTM D5185m				
		ppm			<1 2	0	0
	Copper Tin	ppm	ASTM D5185m ASTM D5185m				
	Vanadium	ppm		>10	1	<1	0
	White Metal	ppm	ASTM D5185m *Visual		<1 NONE	<1	< I NONE
		scalar		NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	6	5	3
	Potassium	ppm	ASTM D5185m	>20	2	2	<1
There is no indication of any contamination in the oil.	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	0.2	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	9.6	9.7	8.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	20.1	17.9
	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	Sodium	ppm	ASTM D5185m		3	3	<1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		106	125	160
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		20	18	11
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		468	602	383
	Calcium	ppm	ASTM D5185m		1909	1965	1884
	Phosphorus	ppm	ASTM D5185m		924	1080	998
	Zinc	ppm	ASTM D5185m		1194	1360	1273
	Sulfur	ppm	ASTM D5185m		4151	4648	4562
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	16.2	15.2
	Dese Mill / ON						7.0

Base Number (BN) mg KOH/g ASTM D2896

ASTM D445

Visc @ 100°C cSt

8.9

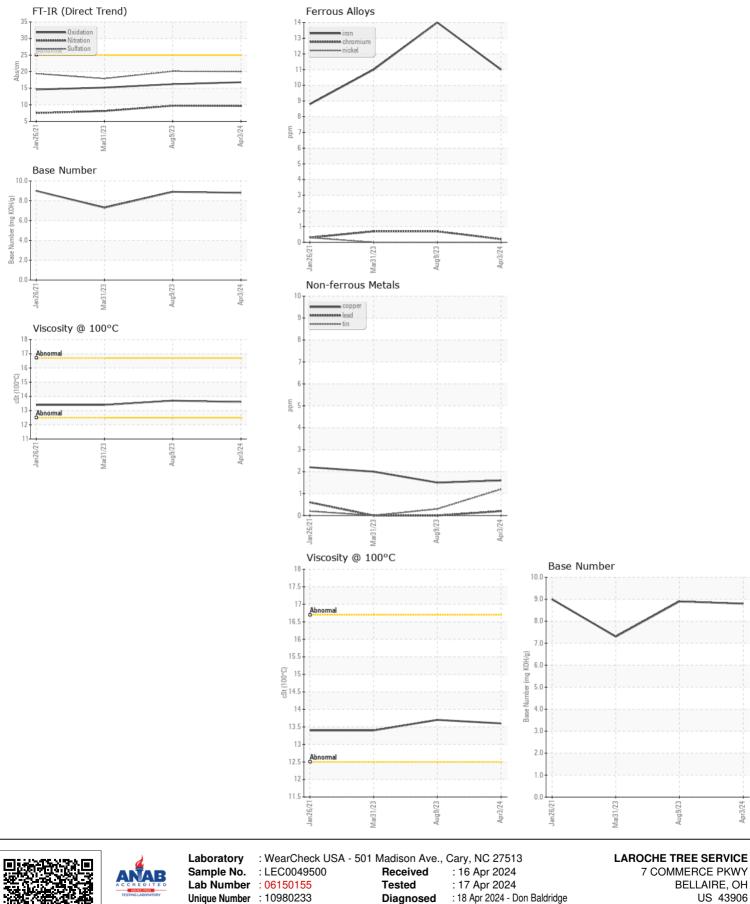
13.7

7.3

13.4

8.8

13.6



Certificate L2367 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)

Contact/Location: GLEN VARGO - LARBELOH Page 2 of 2

Contact: GLEN VARGO

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