

Store 9 - Marietta

5048 omponent **Gasoline Engine**

LYDEN 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0049522	LEC0046935	
	Sample Date		Client Info		28 May 2024	06 Feb 2024	
	Machine Age	hrs	Client Info		444	291	
	Oil Age	hrs	Client Info		173	171	
	Filter Age	hrs	Client Info		173	171	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	nom	ASTM D5185m	<150	34	47	
WEAN	Chromium	ppm	ASTM D5185m		2	47	
All component wear rates are normal.	Nickel	ppm ppm	ASTM D5185m		∠ <1	0	
	Titanium	ppm	ASTM D5185m	>5	62	<1	
	Silver	ppm	ASTM D5185m	~2	02	0	
	Aluminum	ppm	ASTM D5185m		7	6	
	Lead	ppm	ASTM D5185m		, <1	<1	
	Copper	ppm	ASTM D5185m		2	3	
	Tin	ppm	ASTM D5185m		2	3	
	Vanadium	ppm	ASTM D5185m	210	- <1	0	
	White Metal	scalar	*Visual	NONE	NONE	LIGHT	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
				HOLL		····	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	4 25	4 1	
Elemental level of silicon (Si) above normal indicating ingress of seal material. Tests indicate that there is no fuel present in the oil.	Potassium	ppm	ASTM D5185m	>20	4	<1	
	Fuel	%	ASTM D3524	>4.0	0.3	4 .3	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	6.2	5.3	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	13.5	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE		NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	~400	4	2	
	Boron	ppm	ASTM D5185m	2400	132	137	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	0	
	Molybdenum	ppm	ASTM D5185m		21	66	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		413	459	
	Calcium	ppm	ASTM D5185m		1577	837	
	Phosphorus	ppm	ASTM D5185m		811	560	
	Zinc	ppm	ASTM D5185m		1164	790	
		ppiii			1104	130	

Base Number (BN) mg KOH/g ASTM D2896

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m

Abs/.1mm *ASTM D7414 >25

ASTM D445

3337

13.3

7.4

13.8

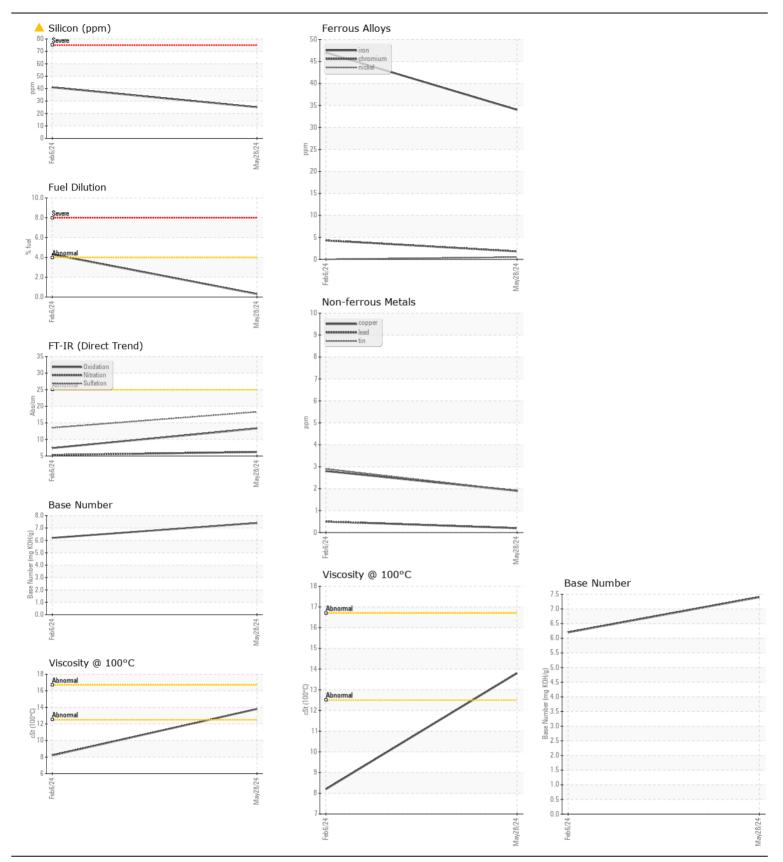
2332

7.4

6.2

8.2

NORMAL WEAR CONTAMINATION **ABNORMAL** NORMAL **FLUID CONDITION**



LAROCHE TREE SERVICE Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : LEC0049522 Received 7 COMMERCE PKWY : 18 Jun 2024 Lab Number : 06213100 Tested BELLAIRE, OH : 20 Jun 2024 Unique Number : 11085964 Diagnosed : 20 Jun 2024 - Don Baldridge US 43906 Test Package : CONST (Additional Tests: PercentFuel, TBN) Contact: GLEN VARGO Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. glen.vargo@larochetree.com T: * - 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) F:

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