

Current

History1

History2

Limit/Abn

Machine Id **STARBOARD ENGINE**

Starboard Diesel Engine

SHELL 15W40 (--- LTR)

DEC			
REU	ОММ	DAI	IUN

						,	,
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0948710		
	Sample Date		Client Info		23 May 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL		
WEAR	Iron		ASTM D5185(m)	<100	90		
	Chromium	ppm ppm	ASTM D5185(m)		1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)		3		
	Titanium	ppm	. ,		0		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum	ppm	ASTM D5185(m)		1		
	Lead		ASTM D5185(m)	>50	י <1		
	Copper	ppm ppm	ASTM D5185(m)		25		
	Tin	ppm	ASTM D5185(m)		0		
	Vanadium	ppm	ASTM D5185(m)	~7	0		
		- ppin					
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	7		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	<1		
	Fuel		WC Method	>3.0	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	ASTM D7844*	>6	0.2		
	Nitration	Abs/cm	ASTM D7624*	>20	6.8		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	19.6		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
FLUID CONDITION	Sodium	nnm	ASTM D5185(m)	<150	3		
	Boron	ppm	ASTM D5185(m)	>100	12		
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185(m)		0		
	Molybdenum	ppm	ASTM D5185(m)		65		
	Manganese	ppm	ASTM D5185(m)		2		
	Magnesium	ppm ppm	ASTM D5185(m)		896		
	Calcium	ppm	ASTM D5185(m)		1134		
	Phosphorus	ppm	ASTM D5185(m)		1017		
	Zinc	ppm	ASTM D5185(m)		1176		
	200	ррпп			1170		

Sulfur

Oxidation

Visc @ 100°C cSt

Test

UOM

ppm

Abs/.1mm

ASTM D5185(m)

ASTM D7279(m)

ASTM D7414* >25

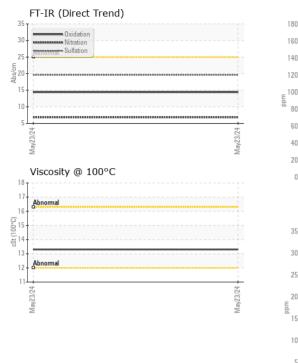
Method

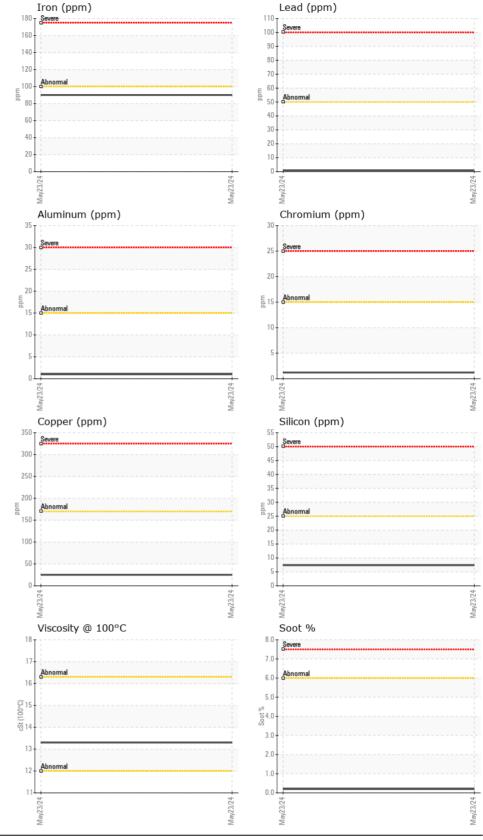
Contact/Location: Larry White - LWDALL

2576

14.4

13.3







Sample No. Received : WC0948710 : 29 May 2024 Lab Number : 02638371 Tested : 29 May 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5787533 Diagnosed : 29 May 2024 - Wes Davis Test Package : MOB 1 To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

LW DIESEL INC 7828 HWY 89 WEST ALLISTON, ON CA L9R 1V1 Contact: Larry White Iwhite@Iwdieselinc.com T: (705)984-3406 F:

Report Id: LWDALL [WCAMIS] 02638371 (Generated: 05/29/2024 14:30:14) Rev: 1

CALA

Laboratory

Contact/Location: Larry White - LWDALL Page 2 of 2