

OIL REPORT

LAB NUMBER:

CODE: 20/75

110 C

UNIT ID: STARBOARD

REPORT DATE: 4/10/2019

CLIENT ID:

PAYMENT: CC: Visa (Bulk)

JNIT

MAKE/MODEL: Detroit Marine 8V92

FUEL TYPE: Diesel ADDITIONAL INFO:

OIL TYPE & GRADE: 40W OIL USE INTERVAL: Hours

CLIENT

COMMENTS

Iron tested high next to averages, which are based on other Detroit engines of this type after ~140 hours on the oil. We aren't sure how long this oil was in use, but iron shows excess wear at steel parts. Normal accumulation over a long service interval could be contributing to the iron level, or perhaps it shows rust if the vessel has been sitting for a while. If the port sample shows a similar iron level (it hasn't made it to us yet), there's a good chance iron is from operational or situational factors, and will improve on its own. All else looks fine. The viscosity is normal for 40W oil.

MI/HR on Oi		UNIT /			
MI/HR on Ur		LOCATION			UNIVERSAL
Sample Date		AVERAGES			AVERAGES
Make Up Oil	Added				
≚					
ALUMINUM	C	0			2
ALUMINUM CHROMIUM	2	2			2
IRON	164	164			62
COPPER	8	8			6
_ LEAD	2	2			2
TIN	11	11			6
MOLYBDEN	UM 1	1			29
NICKEL	C	0			0
MANGANES	E 1	1			1
SILVER	C	0			0
TITANIUM	C	0			0
POTASSIUN	1 0	0			1
BORON	1	1			30
SILICON SODIUM CALCIUM	12	12			8
SODIUM	2	2			5
	40	40			2022
MAGNESIUI	M 1429	1429			379
PHOSPHOR	US 1174	1174			867
ZINC	1280	1280	 	 	995
BARIUM	C	0			0

Values

Should Be*

SUS Viscosity @ 210°	80.2	70-82			
cSt Viscosity @ 100°C	15.58	13.0-16.3			
Flashpoint in °F	450	>420			
	<0.5	<3.0			
Fuel % Antifreeze % Water % Insolubles % TBN	0.0	0.0			
Water %	0.0	0.0			
Insolubles %	0.3	<0.6			
TBN					
TAN					
ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE