



OIL REPORT

LAB NUMBER: S018999
 REPORT DATE: 2/14/2024
 CODE: 20/88

UNIT ID: 06 BENETEAU-P
 CLIENT ID: 114###
 PAYMENT: CC Online

UNIT	MAKE/MODEL: Yanmar 6LYA-STP	OIL TYPE & GRADE: Mobil Delvac 1 ESP 5W/40
	FUEL TYPE: Diesel	OIL USE INTERVAL: 128 Hours
	ADDITIONAL INFO: Model: Swift 42	

CLIENT	THOMAS LAHEY	PHONE: (603) ###-####
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COMMENTS TOM: Looking better. Aluminum came down to the average level, and silicon dropped, too. These results match what we found in the starboard engine, which is a strong indicator that both Yanmar engines are wearing well. No concerns arise from the other metal levels. The oil was free from any significant fuel dilution or moisture contamination. The viscosity was a little below 5W/40 grade, but that's not enough to spoil an otherwise excellent set of results. Low insolubles indicate excellent oil filtration. Nice results over here, and spoilers: the starboard engine looks good too!

	MI/HR on Oil	128	UNIT / LOCATION AVERAGES	148	100	90	168	120	UNIVERSAL AVERAGES
	MI/HR on Unit	488		2,246	1,619	1,369	626	458	
	Sample Date	1/21/2024		11/7/2023	5/8/2022	12/3/2020	4/13/2018	9/7/2017	
	Make Up Oil Added	0 qts		0 qts	1 qt	0 qts	0 qts	3 qts	
ELEMENTS IN PARTS PER MILLION	ALUMINUM	3	4	6	3	5	3	3	3
	CHROMIUM	1	1	1	1	1	1	2	1
	IRON	13	31	24	40	37	27	37	18
	COPPER	3	12	8	12	14	9	9	14
	LEAD	2	1	4	1	1	1	1	1
	TIN	1	1	2	0	1	0	0	0
	MOLYBDENUM	32	28	53	5	76	0	3	11
	NICKEL	0	0	0	0	0	0	0	0
	MANGANESE	1	1	1	1	1	1	1	0
	SILVER	0	0	0	0	0	0	0	0
	TITANIUM	0	0	0	1	0	0	0	0
	POTASSIUM	0	133	0	375	326	4	8	7
	BORON	110	183	119	421	313	73	30	106
	SILICON	7	6	12	4	5	7	5	4
	SODIUM	3	4	2	5	5	4	4	5
	CALCIUM	1149	1811	1190	2729	1774	1636	2422	2240
	MAGNESIUM	973	588	957	50	846	676	18	115
	PHOSPHORUS	1200	1142	1176	1179	1303	868	1101	1057
ZINC	1283	1244	1283	1303	1385	950	1266	1180	
BARIUM	0	0	0	0	0	0	0	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	63.1	66-78	68.6	72.3	69.4	73.2	81.5
	cSt Viscosity @ 100°C	11.08	11.9-15.3	12.57	13.57	12.80	13.79	15.90
	Flashpoint in °F	415	>410	405	405	435	420	395
	Fuel %	<0.5	<2.0	0.5	1.0	<0.5	<0.5	2.0
	Antifreeze %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.3	<0.6	0.3	0.2	0.3	0.3	0.4
	TBN						6.7	
	TAN							
ISO Code								

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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