OIL ANALYSIS REPORT

320385 YANMAR E04909 - PORT MAIN ENGINE

Sample No: VPA055497

Oil Type: SHELL ROTELLA T4 15W40

SAMPLE INFORMATION Sample Number VPA055497 16 Feb 2024 Sample Date Machine Hours 3075 **Oil Hours** 2 Oil Changed Not Changd NORMAL Sample Status **OIL CONDITION** Visc @ 100°C cSt 13.9 Oxidation (PA) % 65 CONTAMINATION Water % NEG % Soot % 0 Nitration (PA) % 48 Sulfation (PA) % 55 Glycol % NEG % Fuel <1.0 Silicon ppm 8 Sodium ppm 2 Potassium 6 🔲 ppm

WEAR METALS

Iron	ppm	4	 	
Copper	ppm		 	
Lead	ppm	1	 	
Tin	ppm	0	 	
Aluminum	ppm	2	 	
Chromium	ppm		 	
Molybdenum	ppm	9	 	
Nickel	ppm	■ <1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	0	 	
Vanadium	ppm	0	 	

ADDITIVES

Calcium	ppm	2015	 	
Magnesium	ppm	60	 	
Zinc	ppm	1035	 	
Phosphorus	ppm	917	 	
Barium	ppm	0	 	
Boron	ppm	150	 	

HINDSON MARINE SERVICE INC

79 CHAMPLAIN ROAD, P.O. BOX 5025 Penetanguishene, ON CA L9M 2G2 Contact: Stewart McConkey Stewart@hindsonmarina.com T: (705)549-2004 F: (705)549-3138

Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

 Depot:
 ROB79PEN

 Unique No:
 5736000

 Signed:
 Kevin Marson

 Report Date:
 29 Feb 2024

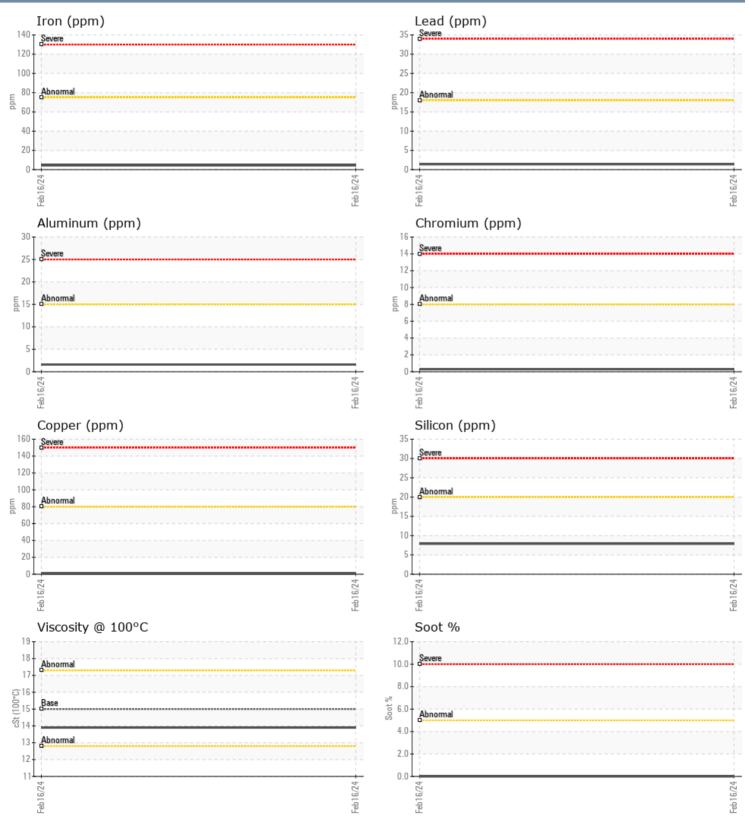
Contact/Location: Stewart McConkey - ROB79PEN



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GRAPHS



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Contact/Location: Stewart McConkey - ROB79PEN