OIL ANALYSIS REPORT

MICHAEL EDMUNDS DILLON KOHLER 2182744 - STARBOARD GENSET

Sample No: VPA054899

Oil Type: VOLVO 10W40

SAMPLE INFORMATION

Sample Number		VPA054899	VPA055407	
Sample Date		03 Apr 2024	28 Apr 2023	
Machine Hours		49	43	
Oil Hours		0	0	
Oil Changed		Changed	N/A	
-		NORMAL	ABNORMAL	
Sample Status		NORWAL	ABNORIVIAL	
OIL CONDITION				
Visc @ 100°C	cSt	15.8	17.4	
Base Number (BN)	mg KOH/g	6.8	6.1	
Oxidation (PA)	%	31	25	
CONTAMINATION				
Water	%	NEG	NEG	
Soot %	%	0	0	
Nitration (PA)	%	38	33	
Sulfation (PA)	%	35	30	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	< 1.0	
Silicon	ppm	8	6	
Sodium	ppm	 <1	<1	
Potassium	ppm	0	 <1	
WEAR METALS				
Iron	ppm	8	10	
Copper	ppm	1	<1	
Lead	ppm	0	0	
Tin	ppm	0	0	
Aluminum	ppm	 <1	<1	
Chromium	ppm	0	<1	
Molybdenum	ppm	38	42	
Nickel	ppm	0	<1	
Titanium	ppm	0	0	
Silver	ppm		0	
Manganese	ppm	<1	□ <1	
Vanadium	ppm	0	0	
ADDITIVES				
Calcium	ppm	1876	1857	
Magnesium	ppm	10	14	
Zinc	ppm	808	865	
Phosphorus	ppm	707	729	
Barium	ppm	0	0	
Boron	ppm	7	9	
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Endor Marine LLC - Coastal Marine - 152124

4300 11th Ave. NW SEATTLE, WA US 98107 Contact: WILLOW YANARELLA service@coastalmarineengine.com T: (206)784-3703 F: (206)784-8823

Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

 Depot:
 VP794951

 Unique No:
 10965798

 Signed:
 Sean Felton

 Report Date:
 10 Apr 2024

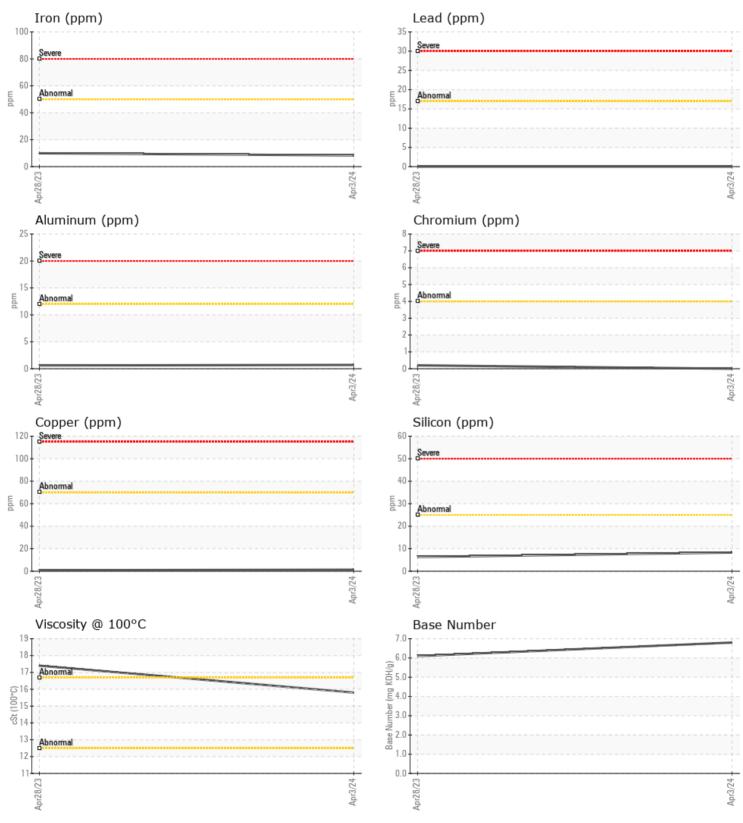
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OIL ANALYSIS REPORT



GRAPHS



Report Id: VP794951 [WUSCAR] 06140990 (Generated: 04/15/2024 11:13:27) Rev: 1

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