



## PHIL ARONSON FINALLY KOHLER SGM32M9PN - GENSET

Sample No: VPA062268
Oil Type: {unknown}

SAMPLE INFORMAT	<b>TION</b>			
		VPA062268	 	
Sample Number Sample Date		02 Jul 2024	 	
Machine Hours		42	 	
Oil Hours		42	 	
Oil Changed		Changed	 	
Sample Status		SEVERE	 	
		JEVERE	 	
OIL CONDITION				
Visc @ 100°C	cSt	<b>13.5</b>	 	
Base Number (BN)	mg KOH/g	■8.9	 	
Oxidation (PA)	%	82	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	NEG ■ 0.2	 	
Nitration (PA)	%	102	 	
Sulfation (PA)	%	59	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	▲ 298	 	
Sodium	ppm	<u>△</u> 2674	 	
Potassium	ppm	<u>▲</u> 120	 	
WEAD METALS				
WEAR METALS				
Iron	ppm	<b>▲</b> 505	 	
Copper	ppm	<b>■28</b>	 	
Lead	ppm	<b>■</b> 6	 	
Tin	ppm	■4	 	
Aluminum	ppm	<b>457</b>	 	
Chromium	ppm	<b>▲</b> 72	 	
Molybdenum	ppm	56	 	
Nickel	ppm	<b>2</b>	 	
Titanium	ppm	2	 	
Silver	ppm	<b>0</b>	 	
Manganese	ppm	24	 	
Vanadium	ppm	<1	 	
Z3VITIDDA				
Calcium	ppm	1187	 	
Magnesium	ppm	1226	 	
Zinc	ppm	1134	 	
Phosphorus	ppm	1004	 	
Barium	ppm	0	 	
Boron	ppm	42	 	

## **North Harbor Diesel Inc**

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## Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Piston, ring and cylinder wear is indicated. Sodium and/or potassium levels are high. Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot:VP179089Unique No:11114667Signed:Jonathan HesterReport Date:10 Jul 2024

## **OIL ANALYSIS REPORT**



