

# OIL ANALYSIS REPORT



## AQUINNA 20056618 - INBOARD - GEARBOX

**Sample No:** VPA058440  
**Oil Type:** SHELL ROTELLA T 30

### SAMPLE INFORMATION

Sample Number	<b>VPA058440</b>	VPA041338	VPA043409	VPA033144
Sample Date	<b>28 Nov 2023</b>	06 Feb 2023	29 Dec 2021	21 Jan 2021
Machine Hours	<b>974</b>	1171	628	499
Oil Hours	<b>122</b>	226	127	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>91.2</b>	92.3	103	93.7
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### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Silicon	ppm	<b>2</b>	3	3	2
Sodium	ppm	<b>2</b>	0	2	2
Potassium	ppm	<b>0</b>	2	0	2

### Diagnosis

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

### WEAR METALS

PQ		<b>65</b>	17	23	27
Iron	ppm	<b>39</b>	17	11	26
Copper	ppm	<b>▲ 105</b>	69	51	86
Lead	ppm	<b>&lt;1</b>	<1	<1	1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>&lt;1</b>	0	<1	0
Chromium	ppm	<b>0</b>	0	<1	<1
Molybdenum	ppm	<b>102</b>	108	83	79
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>2493</b>	2497	2324	2334
Magnesium	ppm	<b>55</b>	51	175	145
Zinc	ppm	<b>1089</b>	1057	964	905
Phosphorus	ppm	<b>994</b>	978	872	866
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	17

**Depot:** VP592286  
**Unique No:** 10768624  
**Signed:** Jonathan Hester  
**Report Date:** 06 Dec 2023

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## GRAPHS

