

OIL ANALYSIS REPORT



OKEEFE VOLVO PENTA 3940016629 - STARBOARD IPS

Sample No: VPA036271
Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA036271	VPA048117	VPA045270	VPA037513
Sample Date	21 Dec 2023	31 Jul 2023	12 Jan 2023	21 Jan 2022
Machine Hours	1041	1026	976	823
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	Not Changd
Sample Status	NORMAL	NORMAL	ATTENTION	ATTENTION

SUNCOAST DIESEL MARINE
 6341 PORTER ROAD, SUITE 6
 SARASOTA, FL
 US 34240
 Contact: SERVICE MANAGER
 info@suncoastdmi.com
 T: (941)342-0033
 F:

OIL CONDITION

Visc @ 40°C	cSt	█ 103	█ 103	█ 105	█ 103.0
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	█ 10	█ 11	█ 15	█ 22
Sodium	ppm	█ 5	█ 7	█ 15	█ 22
Potassium	ppm	█ 0	█ <1	█ <1	█ <1

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 condition of the oil is acceptable for the time in service.

WEAR METALS

PQ		█ 19	█ 16	█ 16	█ 30
Iron	ppm	█ 113	█ 81	▲ 236	▲ 278
Copper	ppm	█ 10	█ 9	█ 22	█ 34
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	4	5
Chromium	ppm	█ 0	█ <1	█ 2	█ 2
Molybdenum	ppm	█ <1	█ 4	█ <1	█ 1
Nickel	ppm	█ <1	█ 1	█ 3	█ 2
Titanium	ppm	0	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	█ <1	█ 1	█ 2	█ 4
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	█ 7	█ 31	█ 22	█ 52
Magnesium	ppm	█ <1	█ 18	█ 3	█ 6
Zinc	ppm	█ 7	█ 24	█ 21	█ 32
Phosphorus	ppm	█ 1379	█ 1390	█ 1362	█ 1280
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 282	█ 311	█ 247	█ 191

Depot: VP705283
Unique No: 10818083
Signed: Jonathan Hester
Report Date: 08 Jan 2024

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VOLVO PENTA

GRAPHS

