

OIL ANALYSIS REPORT



502356 ZF 96-14779 - PORT GEARBOX

Sample No: VPA058197

Oil Type: CONOCO Phillips T5X Heavy Duty 30W

SAMPLE INFORMATION

Sample Number	VPA058197	VPA051932	---	---
Sample Date	20 Feb 2024	28 Aug 2023	---	---
Machine Hours	254	190	---	---
Oil Hours	65	190	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

North Harbor Diesel Inc
 720 30Th Street
 ANACORTES, WA
 US 98221
 Contact: ED MCFARLIN
 ed@northharbordiesel.com
 T:
 F:

OIL CONDITION

Visc @ 40°C	cSt	88.3	88.4	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	2	4	---	---
Sodium	ppm	3	0	---	---
Potassium	ppm	<1	2	---	---

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		17	11	---	---
Iron	ppm	16	22	---	---
Copper	ppm	33	69	---	---
Lead	ppm	32	72	---	---
Tin	ppm	2	4	---	---
Aluminum	ppm	4	6	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	0	<1	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	3294	3206	---	---
Magnesium	ppm	56	128	---	---
Zinc	ppm	1129	1124	---	---
Phosphorus	ppm	1026	1023	---	---
Barium	ppm	0	2	---	---
Boron	ppm	8	5	---	---

Depot: VP179089
Unique No: 10902859
Signed: Don Baldrige
Report Date: 04 Mar 2024

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**VOLVO
PENTA**

GRAPHS

