

OIL ANALYSIS REPORT



STEVE BOUKER 7719010 ZF I30520261255 - INBOARD - STARBOARD GEARBOX

Sample No: VPA051997

Oil Type: CHEVRON DELO 400 SAE 30

SAMPLE INFORMATION

Sample Number	VPA051997	VPA055471	VPA029762	VPA029078
Sample Date	28 Mar 2024	20 Apr 2023	16 Jul 2021	28 Oct 2019
Machine Hours	672	0	398	266
Oil Hours	110	0	134	266
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	ATTENTION	ATTENTION

Pacific Power Group - VP981534
 7215 S 228th St
 Kent, WA
 US 98032
 Contact: PAT RYAN
 pryan@pacificpowergroup.com
 T: (253)520-5163
 F:

OIL CONDITION

Visc @ 40°C	cSt	85.7	88.1	85.9	84.9
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	14	12	13	6
Sodium	ppm	<1	0	<1	2
Potassium	ppm	3	2	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		23	27	34	49
Iron	ppm	41	67	56	44
Copper	ppm	54	92	173	213
Lead	ppm	2	2	3	3
Tin	ppm	5	8	13	13
Aluminum	ppm	4	2	3	6
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	47	49	37	20
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	3648	3710	3289	2708
Magnesium	ppm	26	31	73	150
Zinc	ppm	1218	1241	1077	1004
Phosphorus	ppm	1113	1083	989	925
Barium	ppm	<1	0	0	0
Boron	ppm	482	566	496	193

Depot: VP99031103
Unique No: 10968166
Signed: Jonathan Hester
Report Date: 12 Apr 2024

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VOLVO PENTA

GRAPHS

