



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

LAURA FOLTZ [COLIN 6643]

Machine Id

VOLVO PENTA HS68A-A 51220351734 - INBOARD

Component

Center Gearbox

Fluid

CHEVRON AUTOMATIC TRANS FLUID MD-3 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA060748	VPA048521	VPA048886
Sample Date		Client Info		18 Apr 2024	08 May 2023	29 Apr 2022
Machine Age	hrs	Client Info		343	282	179
Oil Age	hrs	Client Info		0	0	179
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Not Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		29	17	20
Iron	ppm	ASTM D5185m	>150	27	22	16
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>5	2	5	1
Lead	ppm	ASTM D5185m	>65	<1	0	1
Copper	ppm	ASTM D5185m	>80	11	7	10
Tin	ppm	ASTM D5185m	>8	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

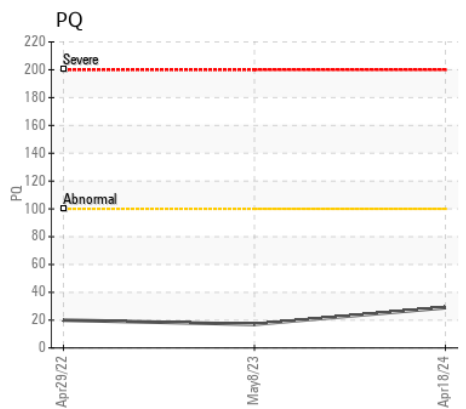
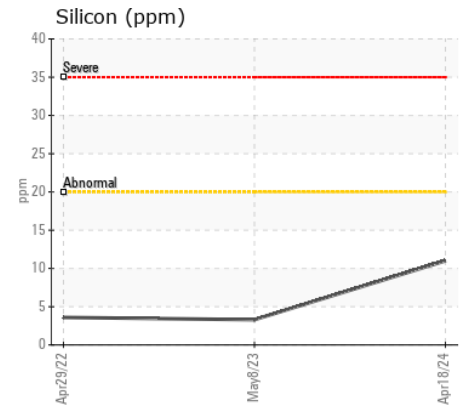
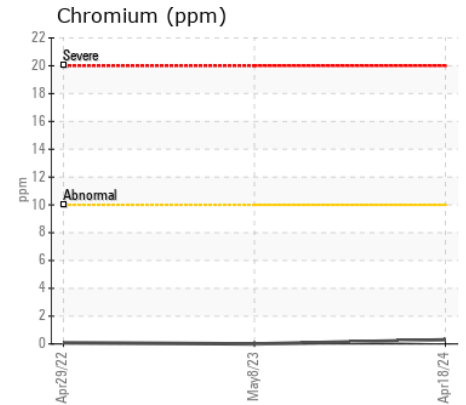
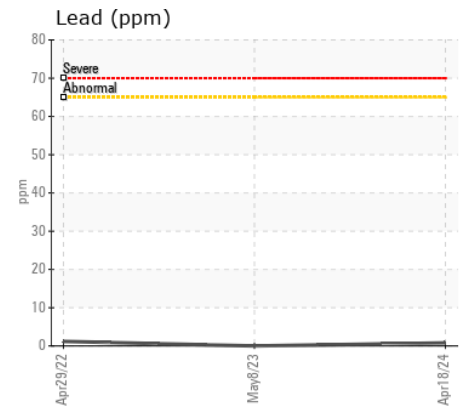
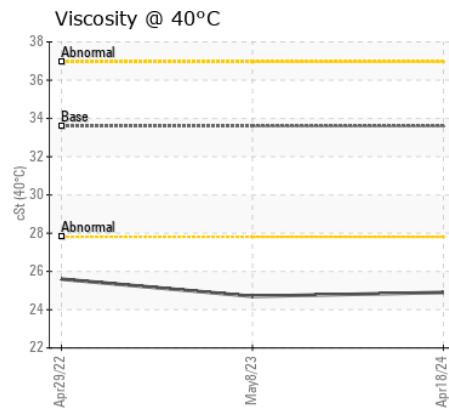
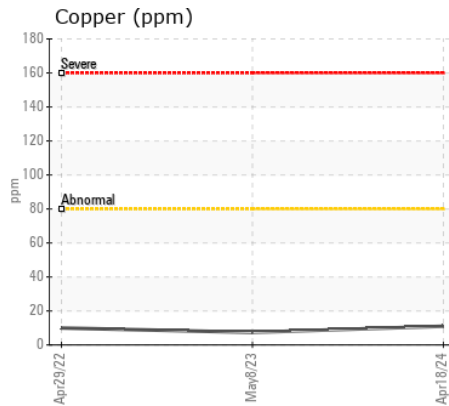
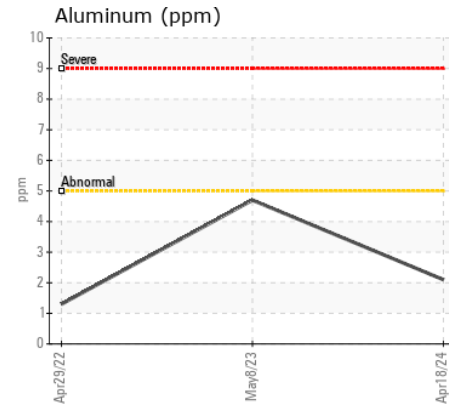
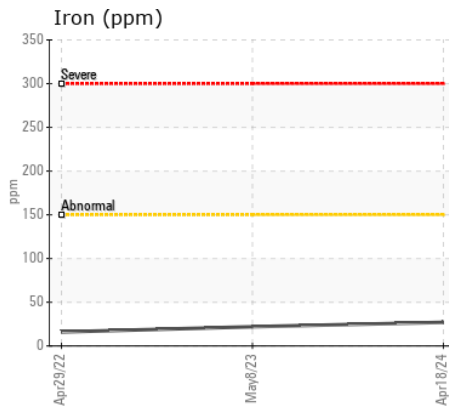
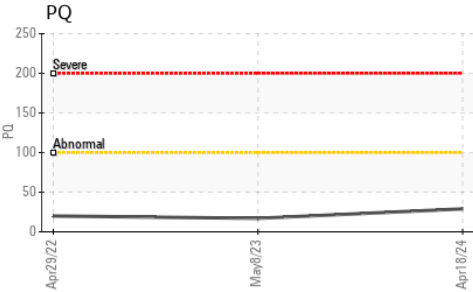
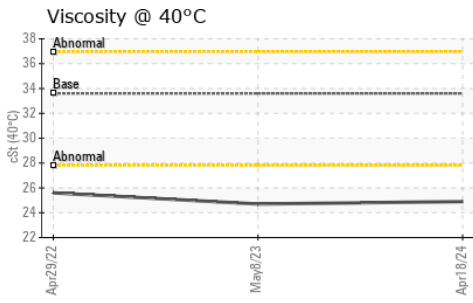
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	11	3	4
Potassium	ppm	ASTM D5185m	>20	1	0	<1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	<1	1
Boron	ppm	ASTM D5185m		106	102	85
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		4	<1	<1
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		16	7	13
Calcium	ppm	ASTM D5185m		152	73	55
Phosphorus	ppm	ASTM D5185m		270	232	255
Zinc	ppm	ASTM D5185m		56	16	58
Sulfur	ppm	ASTM D5185m		1244	1280	1452
Visc @ 40°C	cSt	ASTM D445	33.6	24.9	24.7	25.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA060748 **Received** : 23 Apr 2024
Lab Number : 06158003 **Tested** : 24 Apr 2024
Unique Number : 10993426 **Diagnosed** : 25 Apr 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: PQ)

Northwest Diesel Power
 1325 ROEDER AVE SUITE 103
 BELLINGHAM, WA
 US 98225
 Contact: BRANDON ROBERTSON
 parts@nwdieselpower.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:
F: