



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

EXCELCIOR MARITIME

Machine Id

VOLVO PENTA 3194006414

Component

Center IPS

Fluid

VALVOLINE SYN POWER SAE 75W90 FULL SYNTH (4 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA049607	VPA049615	VPA045536
Sample Date		Client Info		06 Jul 2024	16 Sep 2023	24 Apr 2023
Machine Age	hrs	Client Info		1029	1014	933
Oil Age	hrs	Client Info		96	81	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	SEVERE

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		19	17	27
Iron	ppm	ASTM D5185m	>275	185	109	▲ 248
Chromium	ppm	ASTM D5185m	>4	<1	<1	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	2
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	5	3	12
Lead	ppm	ASTM D5185m	>4	0	0	0
Copper	ppm	ASTM D5185m	>30	7	7	35
Tin	ppm	ASTM D5185m	>3	0	<1	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

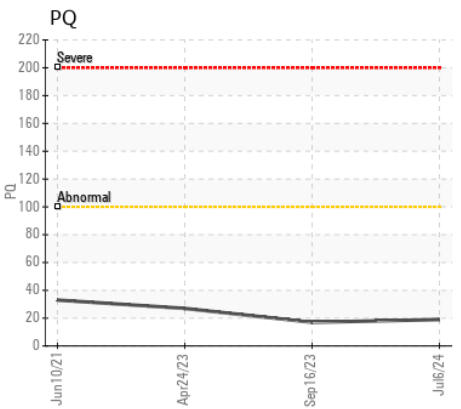
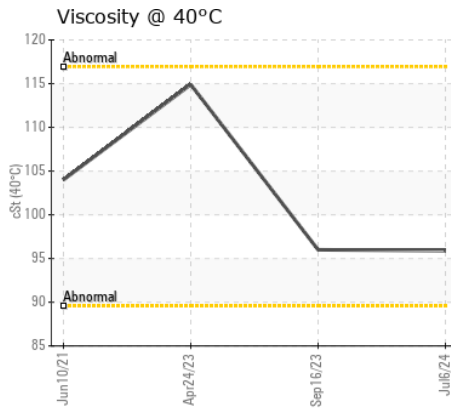
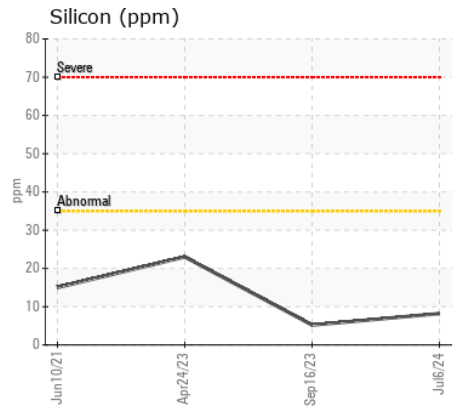
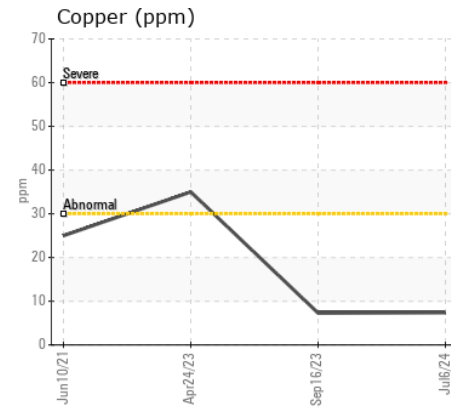
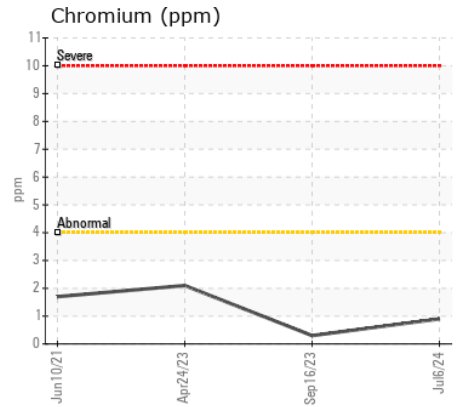
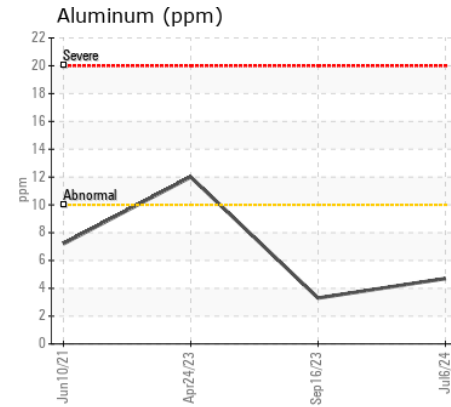
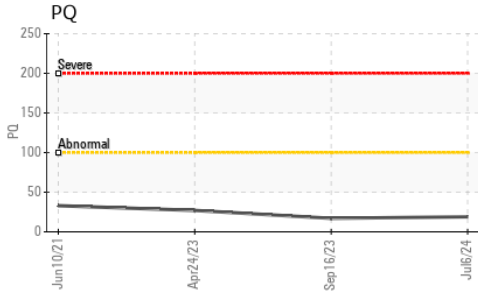
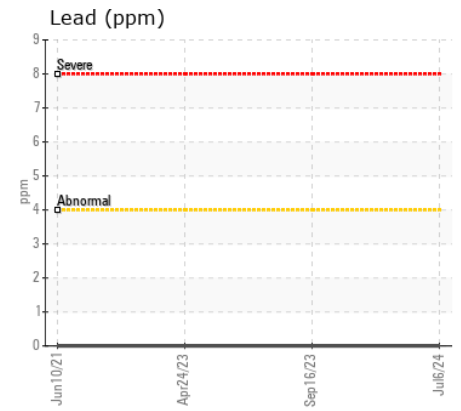
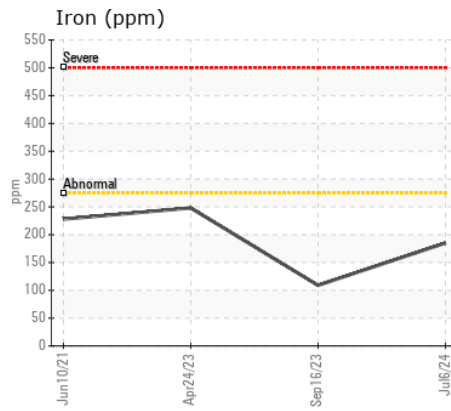
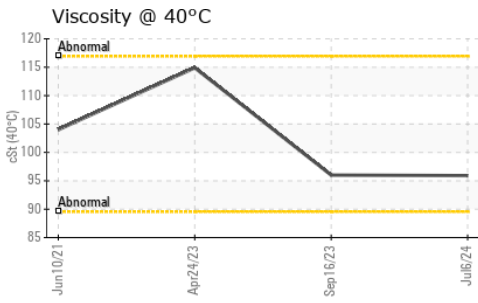
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	8	5	23
Potassium	ppm	ASTM D5185m	>20	<1	4	10
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	● MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	▲ 0.2%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		8	11	● 243
Boron	ppm	ASTM D5185m		295	336	309
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		2	2	5
Magnesium	ppm	ASTM D5185m		7	9	38
Calcium	ppm	ASTM D5185m		0	11	22
Phosphorus	ppm	ASTM D5185m		1429	1412	1432
Zinc	ppm	ASTM D5185m		53	44	49
Sulfur	ppm	ASTM D5185m		17365	17659	30181
Visc @ 40°C	cSt	ASTM D445		95.9	96.0	114.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA049607 **Received** : 15 Jul 2024
Lab Number : 06237090 **Tested** : 17 Jul 2024
Unique Number : 11125924 **Diagnosed** : 17 Jul 2024 - Don Baldridge
Test Package : MOB 1 (Additional Tests: PQ)

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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)