



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**LARRY SPILLANE [MATTHEW DOW]**

Machine Id  
**VOLVO PENTA 3950007325**

Component  
**Starboard IPS**

Fluid  
**GEAR OIL SAE 75W90 (25 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA061918	VPA042491	VPA035003
Sample Date		Client Info		10 May 2024	23 Jan 2023	24 Feb 2022
Machine Age	hrs	Client Info		138	85	28
Oil Age	hrs	Client Info		110	57	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

PQ		ASTM D8184		15	13	19
Iron	ppm	ASTM D5185m	>200	27	13	8
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		<1	0	4
Aluminum	ppm	ASTM D5185m		2	<1	<1
Lead	ppm	ASTM D5185m		<1	0	0
Copper	ppm	ASTM D5185m		5	2	3
Tin	ppm	ASTM D5185m		1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	VLITE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

**CONTAMINATION**

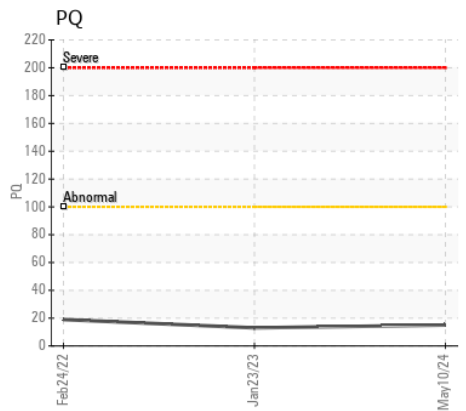
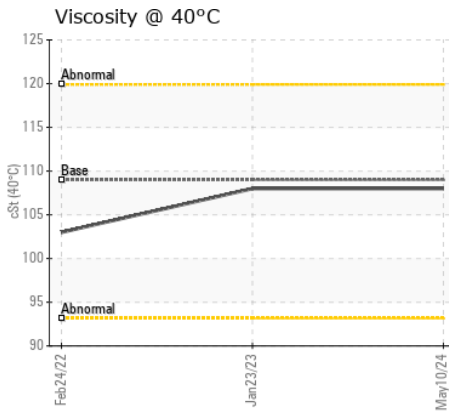
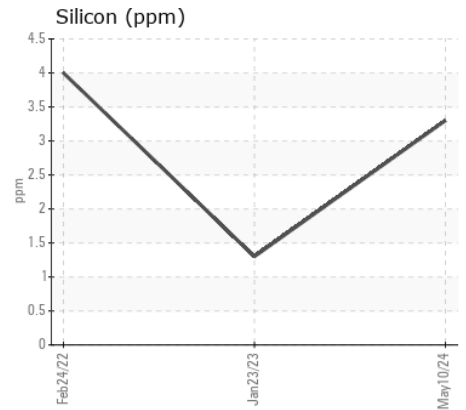
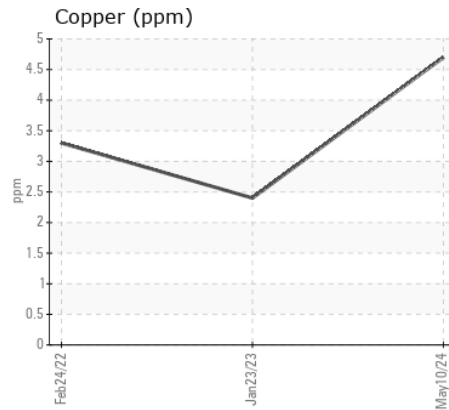
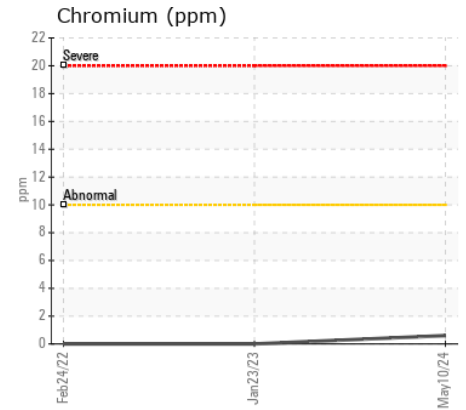
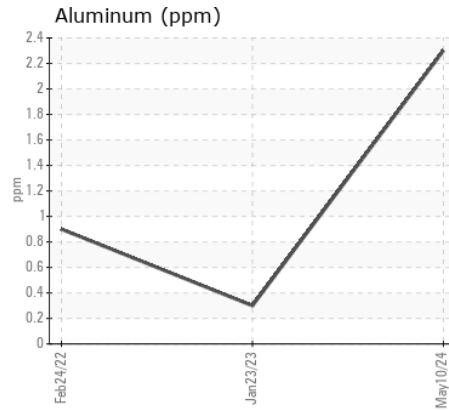
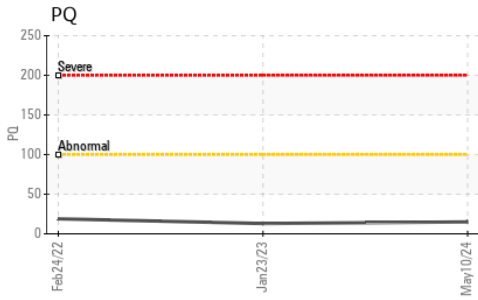
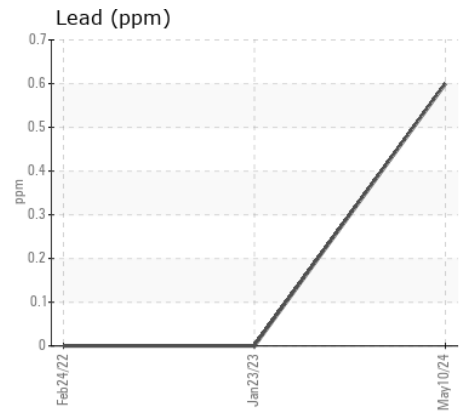
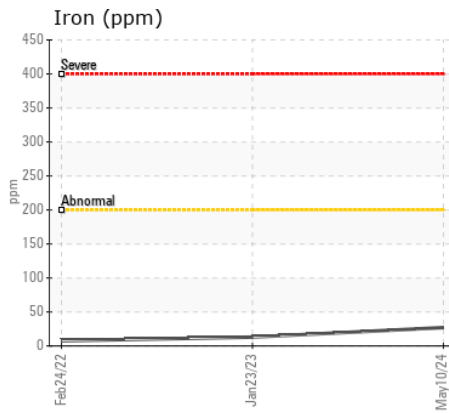
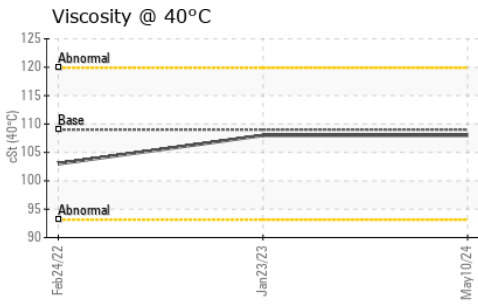
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		3	1	4
Potassium	ppm	ASTM D5185m	>20	4	1	5
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE	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		0	<1	4
Boron	ppm	ASTM D5185m	400	412	326	696
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	<1	0	0
Manganese	ppm	ASTM D5185m		2	1	2
Magnesium	ppm	ASTM D5185m	12	86	81	984
Calcium	ppm	ASTM D5185m	150	11	16	23
Phosphorus	ppm	ASTM D5185m	1650	1297	1315	1600
Zinc	ppm	ASTM D5185m	125	7	9	2
Sulfur	ppm	ASTM D5185m	22500	26008	27210	18745
Visc @ 40°C	cSt	ASTM D445	109	108	108	103



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VPA061918 **Received** : 23 May 2024  
**Lab Number** : 06189550 **Tested** : 24 May 2024  
**Unique Number** : 11046302 **Diagnosed** : 28 May 2024 - Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: PQ )

**Mobile Marine Services Inc**  
 01032 Advance Rd South  
 EAST JORDAN, MI  
 US 49727  
 Contact: Duane Kujat  
 mobilemarine@twin-valley.net  
 T: Phone  
 F:

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)