



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
VANQUISH 58
Machine Id
FISCHER PANDA 1900522
Component
Genset
Fluid
VOLVO PENTA SAE 15W40 (1 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA049947	VPA035340	---
Sample Date		Client Info		02 May 2024	06 Oct 2021	---
Machine Age	hrs	Client Info		2912	1345	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	N/A	---
Filter Changed		Client Info		Not Changd	N/A	---
Sample Status				NORMAL	MARGINAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	0	13	---
Chromium	ppm	ASTM D5185m	>4	<1	<1	---
Nickel	ppm	ASTM D5185m	>2	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>5	0	0	---
Aluminum	ppm	ASTM D5185m	>12	2	6	---
Lead	ppm	ASTM D5185m	>17	0	<1	---
Copper	ppm	ASTM D5185m	>70	<1	4	---
Tin	ppm	ASTM D5185m	>15	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

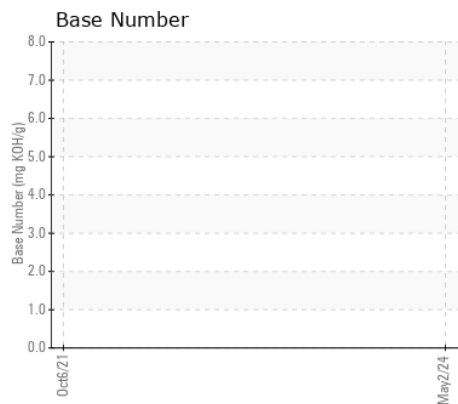
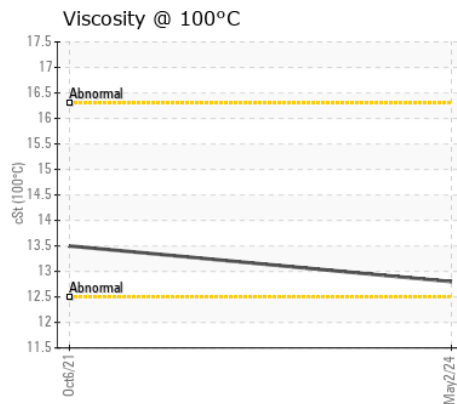
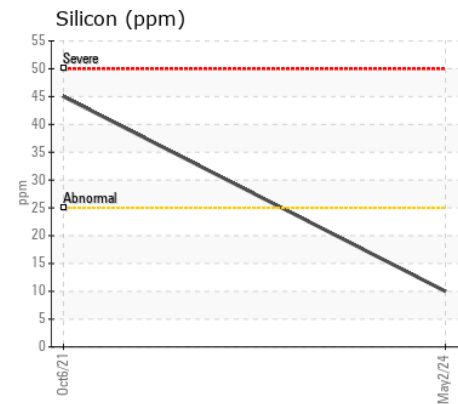
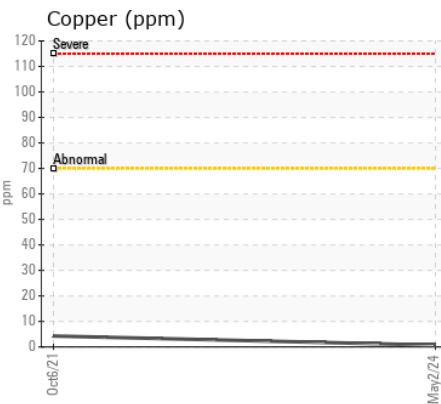
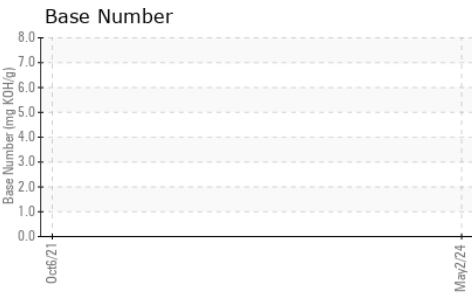
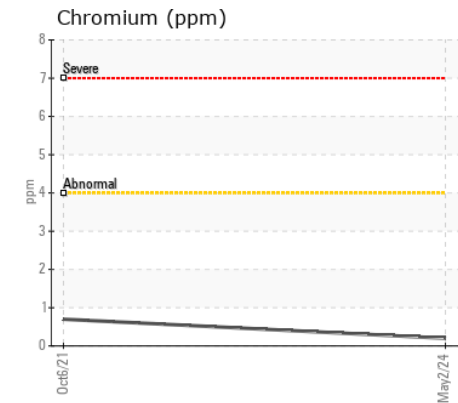
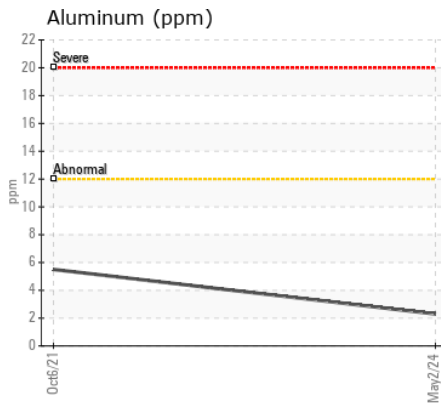
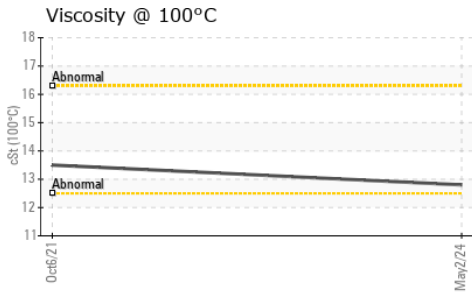
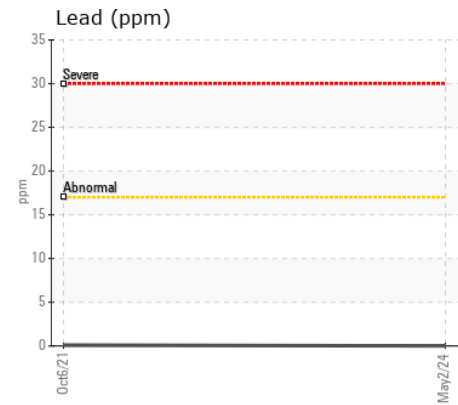
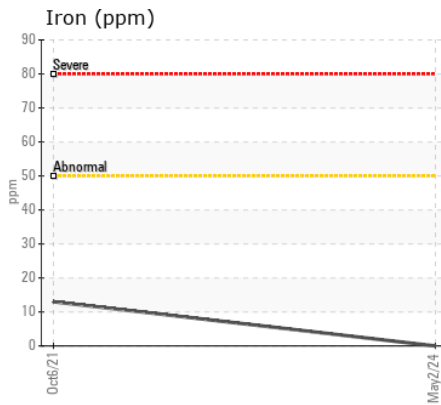
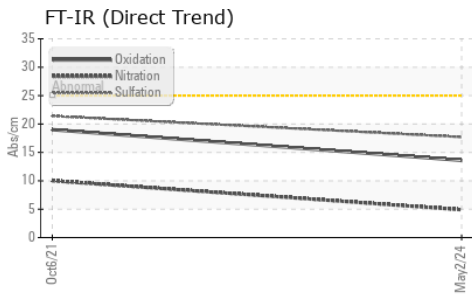
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	10	▲ 45	---
Potassium	ppm	ASTM D5185m	>20	2	1	---
Fuel		WC Method	>4.0	<1.0	<1.0	---
Water		WC Method	>0.1	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844		0.1	---	---
Nitration	Abs/cm	*ASTM D7624	>20	4.9	10	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	21.4	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		2	4	---
Boron	ppm	ASTM D5185m		2	33	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		60	44	---
Manganese	ppm	ASTM D5185m		0	<1	---
Magnesium	ppm	ASTM D5185m		948	746	---
Calcium	ppm	ASTM D5185m		1080	1462	---
Phosphorus	ppm	ASTM D5185m		970	762	---
Zinc	ppm	ASTM D5185m		1297	974	---
Sulfur	ppm	ASTM D5185m		3132	2233	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	19	---
Base Number (BN)	mg KOH/g	ASTM D2896		7.8	---	---
Visc @ 100°C	cSt	ASTM D445		12.8	13.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : VPA049947

Lab Number : 06220981

Unique Number : 11099178

Test Package : MOB 1 (Additional Tests: TBN)

Received : 26 Jun 2024

Tested : 27 Jun 2024

Diagnosed : 27 Jun 2024 - Don Baldrige

Marine International Diesels Inc.

3600 HACIENDA BLVD UNIT G

DAVIE, FL

US 33314

Contact: ASHANTI BURKE

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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)