



VOLVO PENTA

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

58 VANQUIS

Machine Id

VOLVO PENTA 3950005979

Component

Port IPS

Fluid

GEAR OIL SAE 75W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA049948	VPA045295	VPA035342
Sample Date		Client Info		02 May 2024	30 Aug 2022	06 Oct 2021
Machine Age	hrs	Client Info		2023	1380	880
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		12	11	21
Iron	ppm	ASTM D5185m	>275	44	29	57
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	2	3
Lead	ppm	ASTM D5185m	>4	0	<1	1
Copper	ppm	ASTM D5185m	>30	5	4	6
Tin	ppm	ASTM D5185m	>3	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

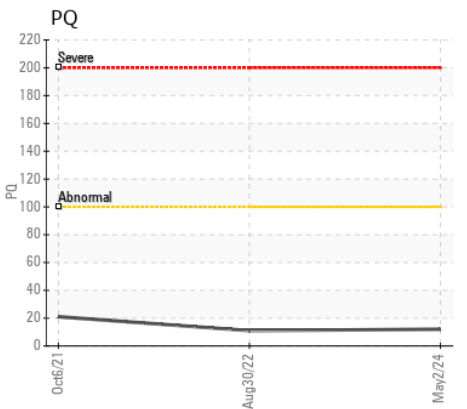
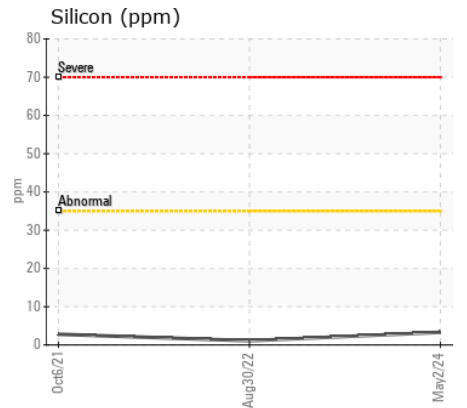
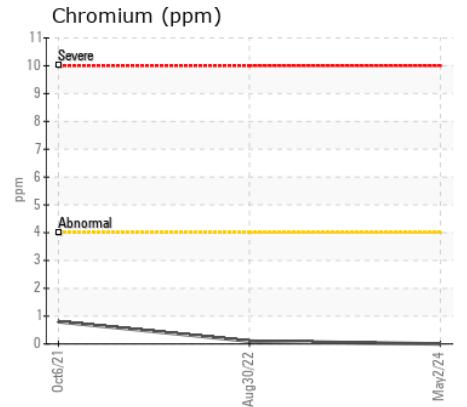
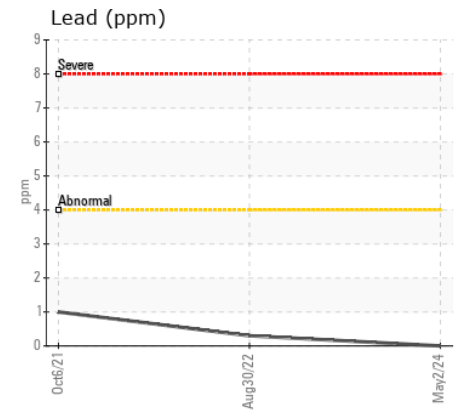
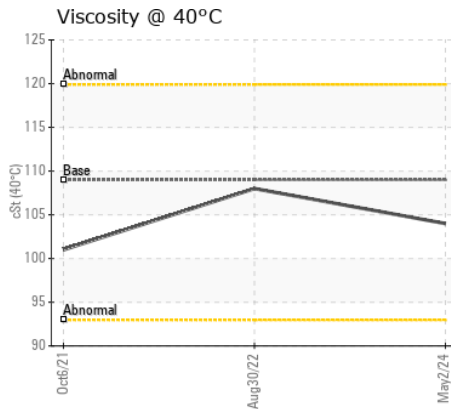
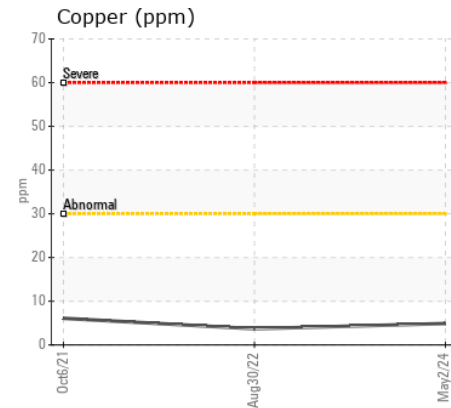
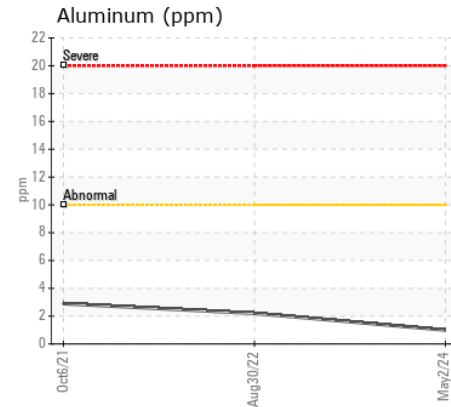
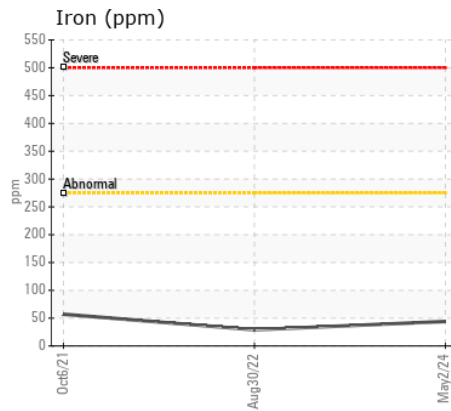
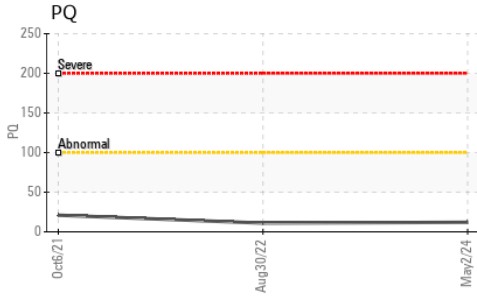
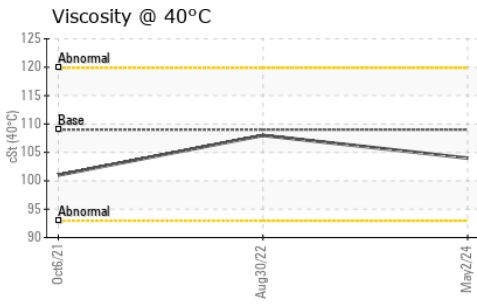
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	3	1	3
Potassium	ppm	ASTM D5185m	>20	3	0	4
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		3	<1	10
Boron	ppm	ASTM D5185m	400	286	332	288
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	0	0	<1
Manganese	ppm	ASTM D5185m		2	1	4
Magnesium	ppm	ASTM D5185m	12	44	6	107
Calcium	ppm	ASTM D5185m	150	13	7	12
Phosphorus	ppm	ASTM D5185m	1650	1402	1379	1337
Zinc	ppm	ASTM D5185m	125	6	4	8
Sulfur	ppm	ASTM D5185m	22500	27949	28409	39182
Visc @ 40°C	cSt	ASTM D445	109	104	108	101



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA049948 **Received** : 26 Jun 2024
Lab Number : 06221565 **Tested** : 27 Jun 2024
Unique Number : 11099762 **Diagnosed** : 28 Jun 2024 - Angela Borella
Test Package : MOB 1 (Additional Tests: PQ)

Marine International Diesels Inc.
 3600 HACIENDA BLVD UNIT G
 DAVIE, FL
 US 33314
 Contact: ASHANTI BURKE
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 T: (954)761-1086
 F: (954)761-1186

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)