MOB I

VOLVO PENTA

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
KILO CHARLIE
Machine Id
ONAN KILO CHARLIE (S/N NOT GIVEN)
Component
Genset
Fluid
SHELL 15W40 (2 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

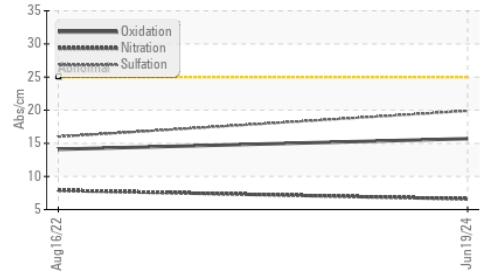
There is no indication of any contamination in the oil.

FLUID CONDITION

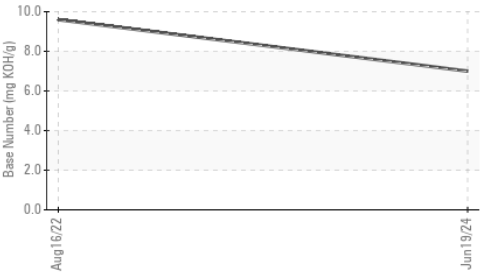
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA059720	VPA043155	---
Sample Date		Client Info		19 Jun 2024	16 Aug 2022	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	100	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	NORMAL	---
Iron	ppm	ASTM D5185m	>50	8	4	---
Chromium	ppm	ASTM D5185m	>4	<1	<1	---
Nickel	ppm	ASTM D5185m	>2	0	<1	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>5	0	0	---
Aluminum	ppm	ASTM D5185m	>12	1	2	---
Lead	ppm	ASTM D5185m	>17	<1	3	---
Copper	ppm	ASTM D5185m	>70	<1	1	---
Tin	ppm	ASTM D5185m	>15	0	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	5	4	---
Potassium	ppm	ASTM D5185m	>20	4	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	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	6.6	7.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	16.0	---
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	---
Sodium	ppm	ASTM D5185m	>150	4	2	---
Boron	ppm	ASTM D5185m		159	84	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		2	9	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		100	645	---
Calcium	ppm	ASTM D5185m		2372	1372	---
Phosphorus	ppm	ASTM D5185m		1055	920	---
Zinc	ppm	ASTM D5185m		1273	1155	---
Sulfur	ppm	ASTM D5185m		4132	2821	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	14.1	---
Base Number (BN)	mg KOH/g	ASTM D2896		7.0	9.6	---
Visc @ 100°C	cSt	ASTM D445		14.2	13.0	---

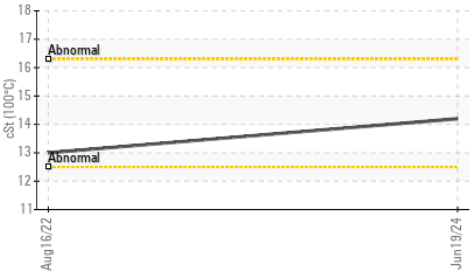
FT-IR (Direct Trend)



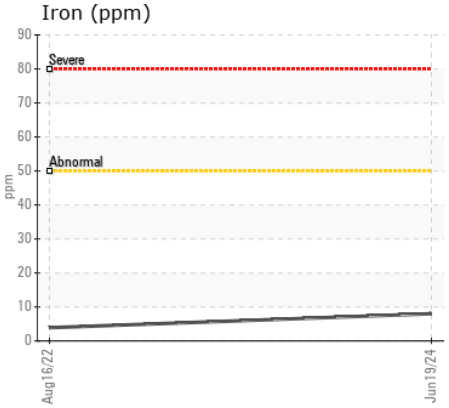
Base Number



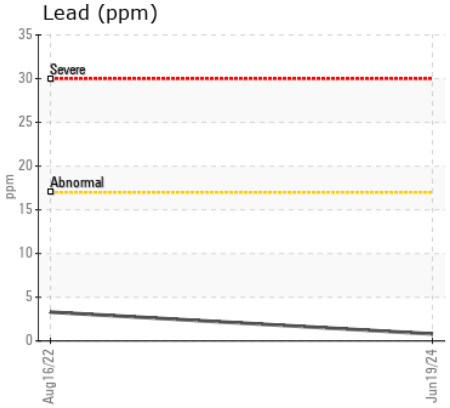
Viscosity @ 100°C



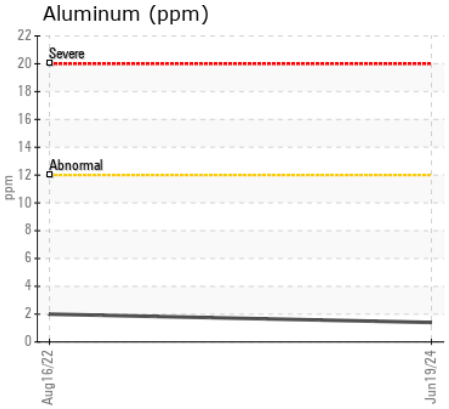
Iron (ppm)



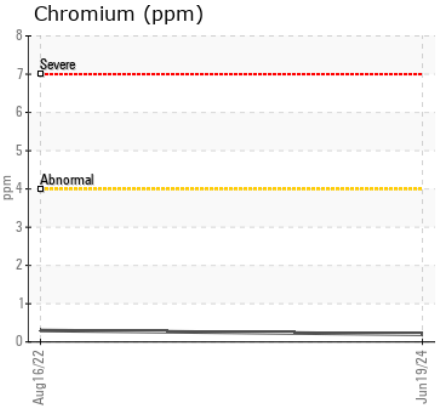
Lead (ppm)



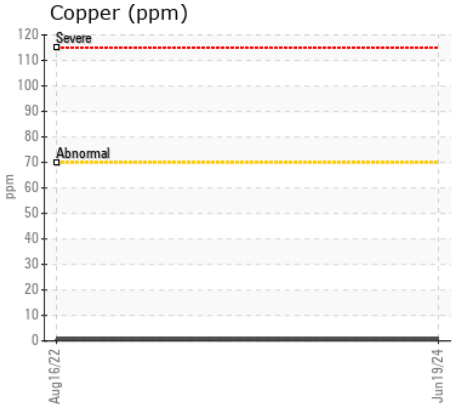
Aluminum (ppm)



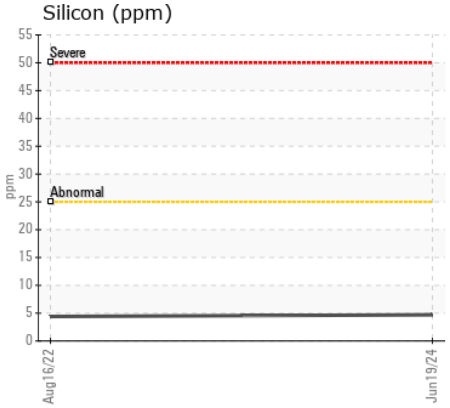
Chromium (ppm)



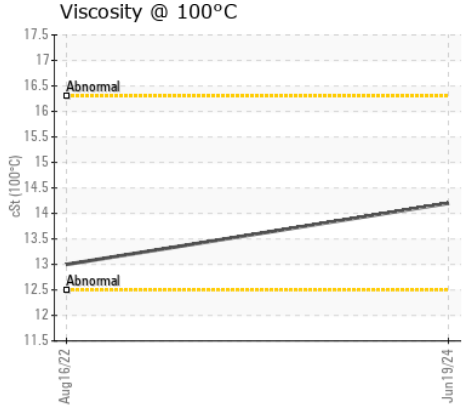
Copper (ppm)



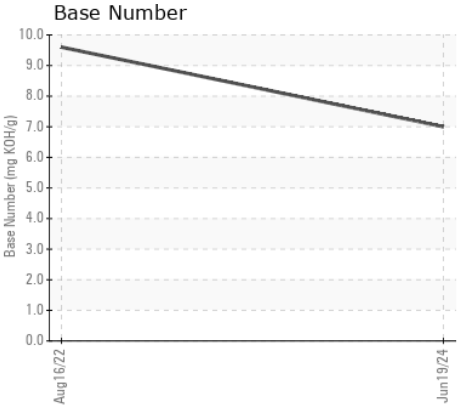
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA059720 **Received** : 20 Jun 2024
Lab Number : 06215586 **Tested** : 21 Jun 2024
Unique Number : 11088450 **Diagnosed** : 22 Jun 2024 - Don Baldridge
Test Package : MOB 1 (Additional Tests: TBN)

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)

Edward`s Marine and Sons
12741 Sunset Ave
OCEAN CITY, MD
US 21842
Contact: Edward Bartholme
edwardsmarine@comcast.net;canastasio@wearcheckusa.com
T:
F: