MOB I VOLVO PENTA

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[WILLY]
Machine Id
MCCLOSKEY 91373 - VARIABLE SPEED
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

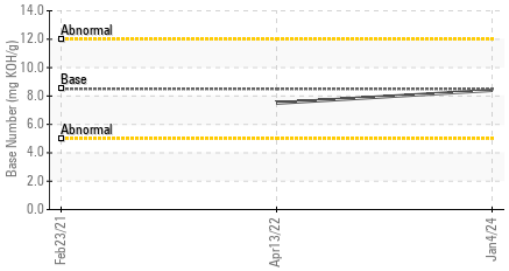
The water content is negligible. There is no indication of any contamination in the oil.

FLUID CONDITION

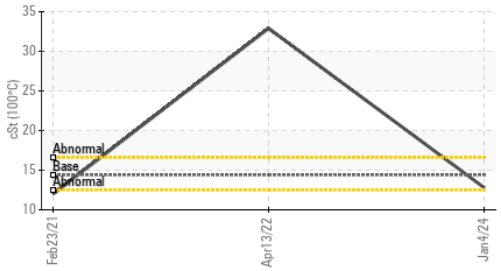
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA056263	VPA257505	VPA257946
Sample Date		Client Info		04 Jan 2024	13 Apr 2022	23 Feb 2021
Machine Age	hrs	Client Info		2818	1611	256
Oil Age	hrs	Client Info		33	400	256
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	SEVERE	NORMAL
Iron	ppm	ASTM D5185m	>100	5	20	14
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	2	1
Lead	ppm	ASTM D5185m	>40	<1	2	2
Copper	ppm	ASTM D5185m	>330	8	28	11
Tin	ppm	ASTM D5185m	>15	<1	2	0
Vanadium	ppm	ASTM D5185m		<1	0	1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	6	7	22
Potassium	ppm	ASTM D5185m	>20	2	6	1
Fuel		WC Method	>5	<1.0	<1.0	1.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.1	11.9	7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	19.7	20.6
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	0.2%	NEG
Sodium	ppm	ASTM D5185m	>216	1	3	3
Boron	ppm	ASTM D5185m	250	10	16	5
Barium	ppm	ASTM D5185m	10	0	0	<1
Molybdenum	ppm	ASTM D5185m	100	44	4	57
Manganese	ppm	ASTM D5185m		<1	1	2
Magnesium	ppm	ASTM D5185m	450	726	56	1039
Calcium	ppm	ASTM D5185m	3000	1310	2322	1189
Phosphorus	ppm	ASTM D5185m	1150	990	904	1025
Zinc	ppm	ASTM D5185m	1350	1173	1139	1215
Sulfur	ppm	ASTM D5185m	4250	3107	2938	2632
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.9	14.4	16
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.4	7.5	---
Visc @ 100°C	cSt	ASTM D445	14.4	12.8	32.9	12.0

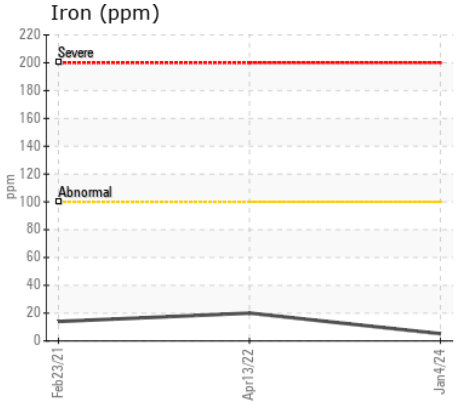
Base Number



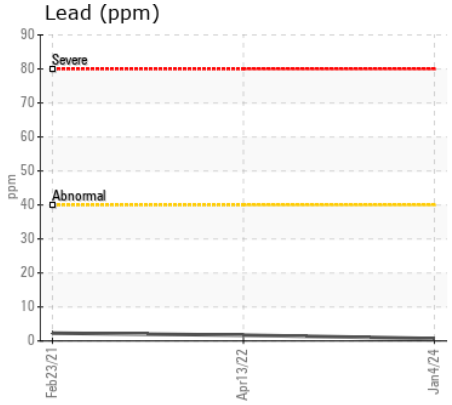
Viscosity @ 100°C



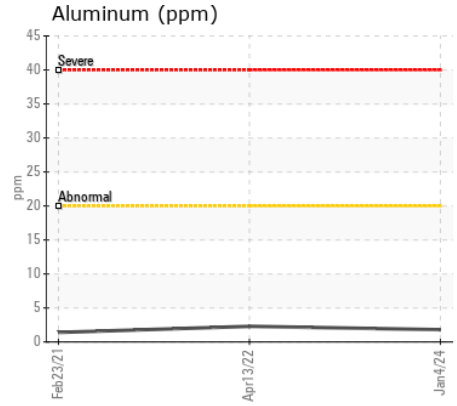
Iron (ppm)



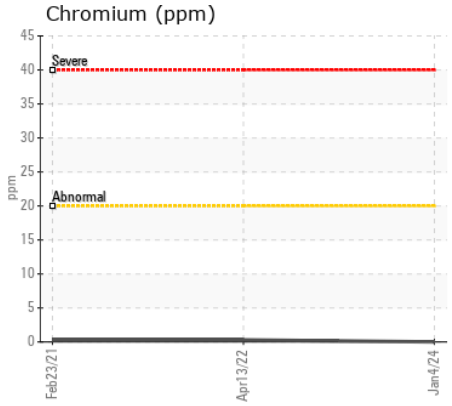
Lead (ppm)



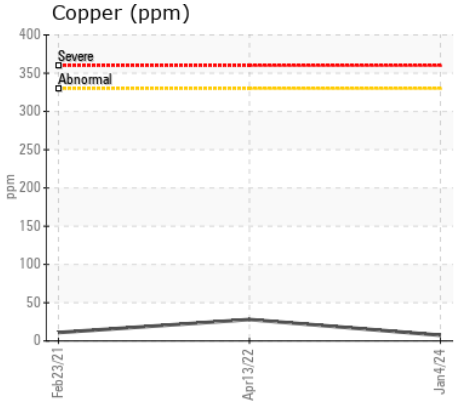
Aluminum (ppm)



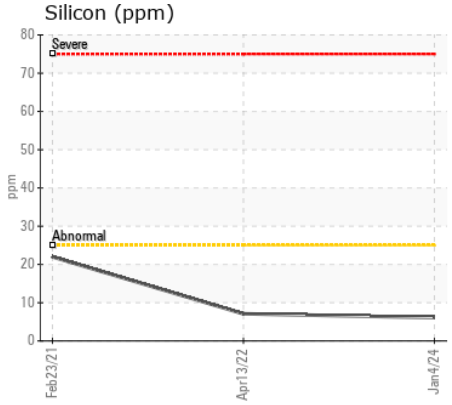
Chromium (ppm)



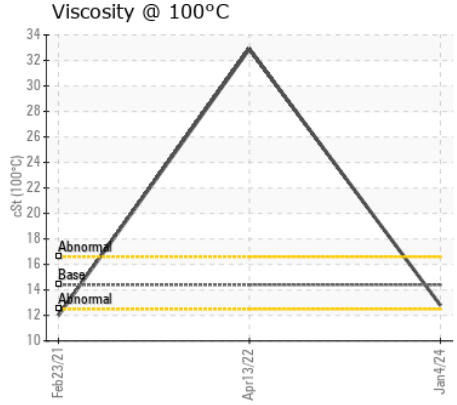
Copper (ppm)



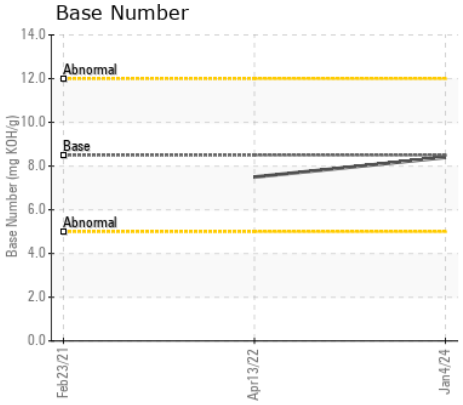
Silicon (ppm)



Viscosity @ 100°C



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA056263
Lab Number : 06056476
Unique Number : 10822425
Test Package : MOB 1 (Additional Tests: TBN)
Recieved : 10 Jan 2024
Diagnosed : 11 Jan 2024
Diagnostician : Don Baldridge

Certificate L2367

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)

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