MOB I VOLVO PENTA

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[WILLY]
Machine Id
MCCLOSKEY 89640 - VARIABLE SPEED
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

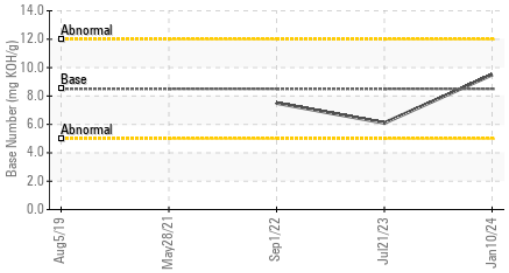
There is no indication of any contamination in the oil.

FLUID CONDITION

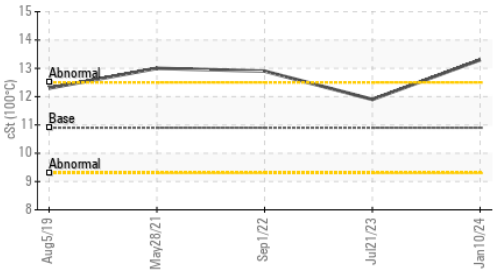
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA056249	VPA040776	VPA040121
Sample Date		Client Info		10 Jan 2024	21 Jul 2023	01 Sep 2022
Machine Age	hrs	Client Info		2594	2452	1596
Oil Age	hrs	Client Info		130	500	300
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	4	12	7
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	0	<1
Aluminum	ppm	ASTM D5185m	>20	1	<1	1
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	1	5	10
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	5	6	4
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Fuel		WC Method	>5	<1.0	1.7	<1.0
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	5.1	7.1	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	19.4	18.7
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	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
Sodium	ppm	ASTM D5185m	>75	<1	2	<1
Boron	ppm	ASTM D5185m	250	23	125	9
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	56	42	7
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	880	413	71
Calcium	ppm	ASTM D5185m	3000	1144	1897	2054
Phosphorus	ppm	ASTM D5185m	1150	1031	976	796
Zinc	ppm	ASTM D5185m	1350	1207	1203	1012
Sulfur	ppm	ASTM D5185m	4250	3158	3887	3045
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	12.8	10.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.5	6.1	7.5
Visc @ 100°C	cSt	ASTM D445	10.9	13.3	11.9	12.9

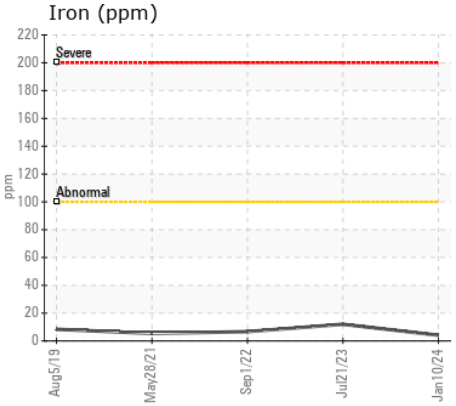
Base Number



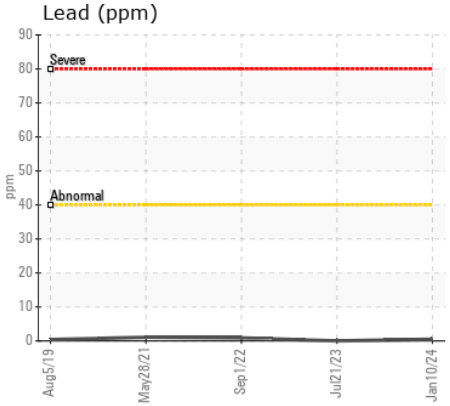
Viscosity @ 100°C



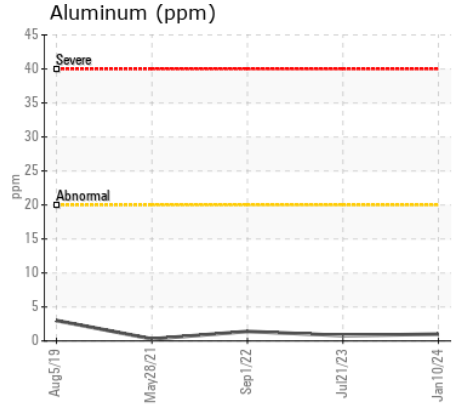
Iron (ppm)



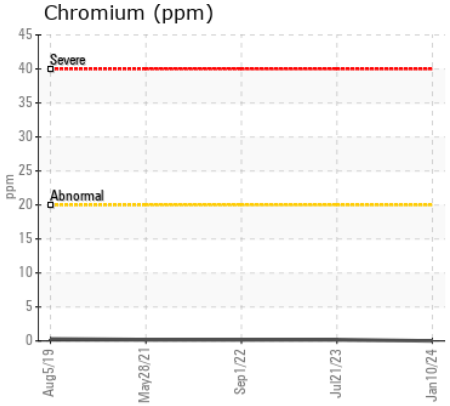
Lead (ppm)



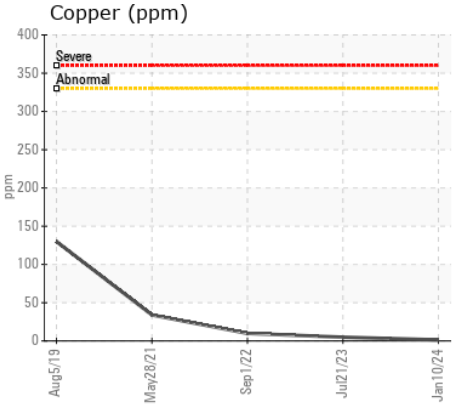
Aluminum (ppm)



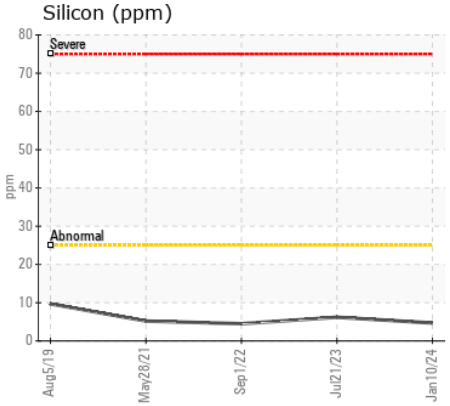
Chromium (ppm)



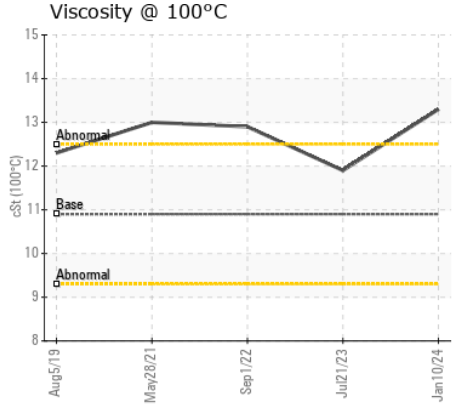
Copper (ppm)



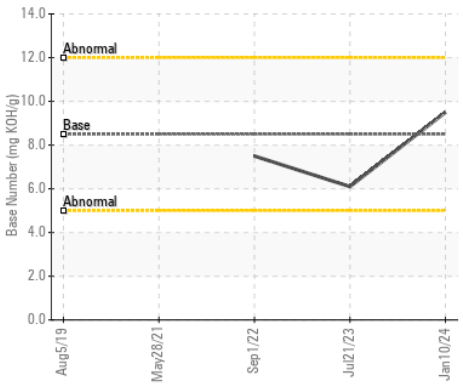
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: VPA056249	**Recieved**	: 17 Jan 2024
Lab Number	: 06062303	**Diagnosed**	: 18 Jan 2024
Unique Number	: 10833685	**Diagnostician**	: Sean Felton
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)

MCCOURT & SONS EQUIPMENT INC
5141 HWY 71 W
LA GRANGE, TX
US 78945
Contact: WAYNE BESEDA
wklesel@mccourtandsons.com
T: (979)242-5298
F: