OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Area
WMR-Plymouth
Machine Id
480152 320056
Component
Front Differential
Fluid
VOLVO WB 102 (--- LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

There is a light concentration of water present in the oil.

FLUID CONDITION

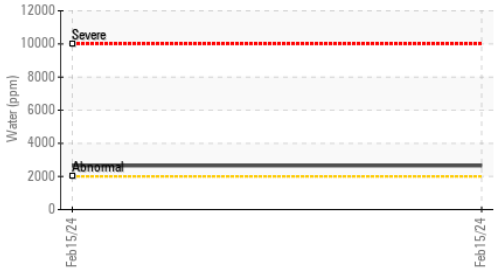
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0009425	DJJ0017380	DJJ0015251
Sample Date		Client Info		15 Feb 2024	08 Jun 2023	27 Sep 2022
Machine Age	hrs	Client Info		17313	14898	12643
Oil Age	hrs	Client Info		2000	2000	2000
Filter Age	hrs	Client Info		2000	2000	2000
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>500	6	3	0
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	2	<1
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m	>100	4	5	<1
Tin	ppm	ASTM D5185m	>10	<1	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	3	9	15
Potassium	ppm	ASTM D5185m	>20	0	2	0
Water	%	ASTM D6304	>.2	▲ 0.265	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 2650	---	---
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	>.2	0.2%	NEG	NEG
Sodium	ppm	ASTM D5185m		<1	<1	11
Boron	ppm	ASTM D5185m		11	7	155
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	4	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		7	20	14
Calcium	ppm	ASTM D5185m		933	2767	4331
Phosphorus	ppm	ASTM D5185m		909	1088	1317
Zinc	ppm	ASTM D5185m		950	1254	1626
Sulfur	ppm	ASTM D5185m		3689	4928	4632
Visc @ 40°C	cSt	ASTM D445	55	58.7	54.7	42.4

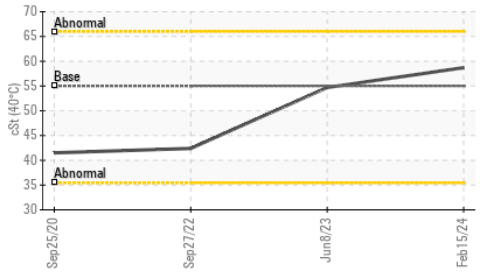
Report Id: WESPLY [WUSCAR] 06098686 (Generated: 02/26/2024 17:26:18) Rev: 1

Contact/Location: JARDEE STEED - WESPLY

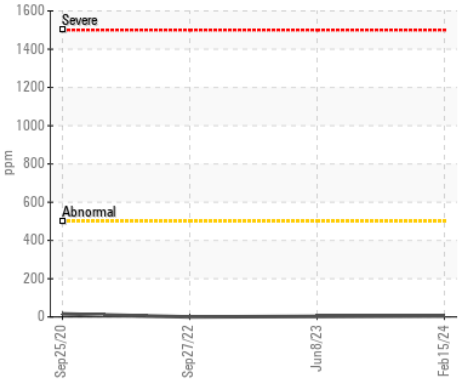
Water (KF)



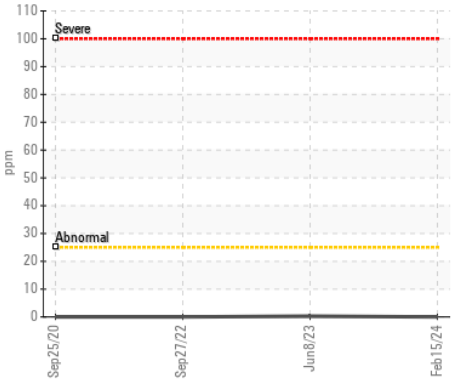
Viscosity @ 40°C



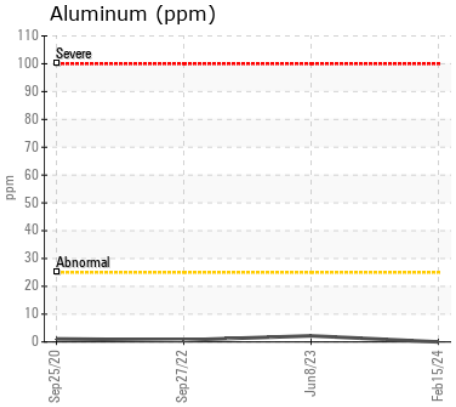
Iron (ppm)



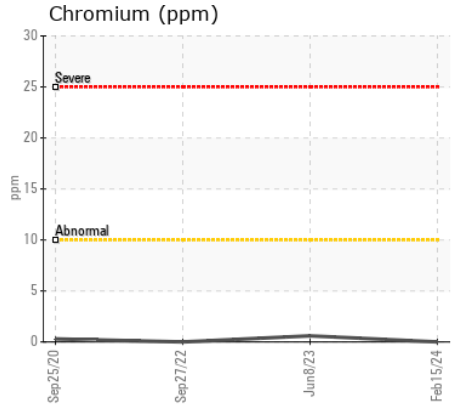
Lead (ppm)



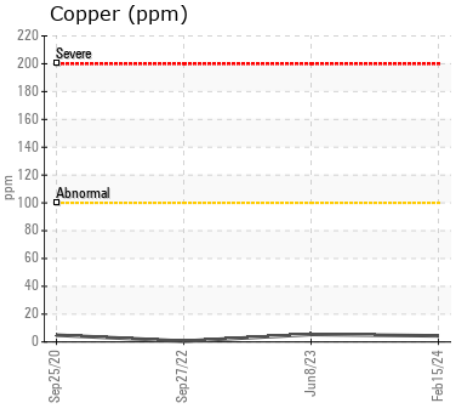
Aluminum (ppm)



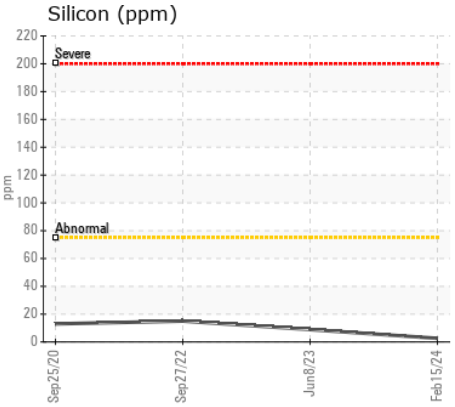
Chromium (ppm)



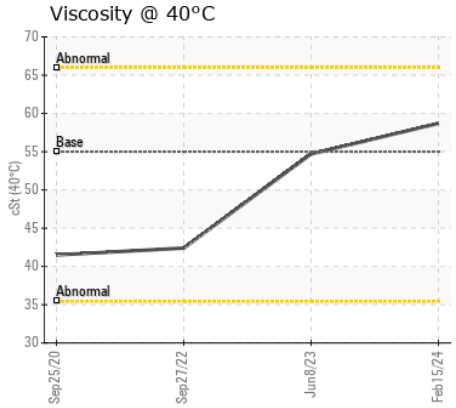
Copper (ppm)



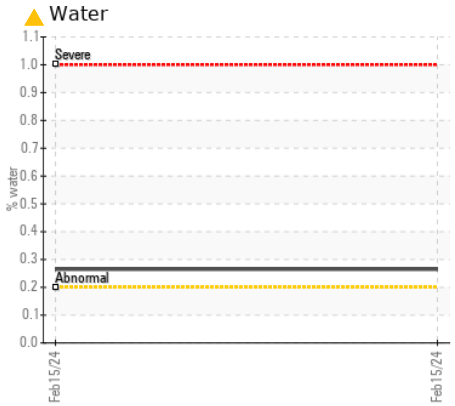
Silicon (ppm)



Viscosity @ 40°C



Water



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0009425
Lab Number : 06098686
Unique Number : 10896916
Test Package : MOBCE (Additional Tests: KF)

Received : 23 Feb 2024
Tested : 26 Feb 2024
Diagnosed : 26 Feb 2024 - Don Baldridge

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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