



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
AMR-Sedalia
Machine Id
17421 VOLVO L90E 67474
Component
Diesel Engine
Fluid
CHEVRON 15W40 (6 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0012339	DJJ0016935	DJJ023777
Sample Date		Client Info		11 Apr 2024	02 May 2023	10 Feb 2023
Machine Age	hrs	Client Info		17251	16887	16638
Oil Age	hrs	Client Info		500	250	250
Filter Age	hrs	Client Info		500	250	250
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	8	10	10
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	3	<1	2
Lead	ppm	ASTM D5185m	>20	<1	0	1
Copper	ppm	ASTM D5185m	>15	<1	<1	0
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

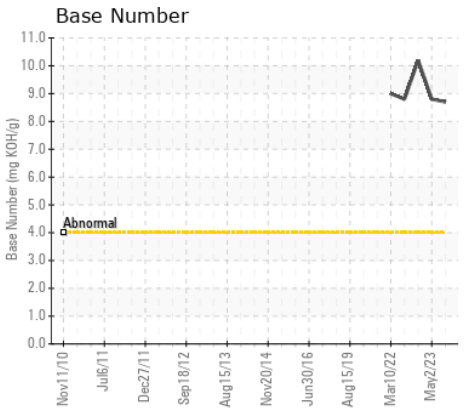
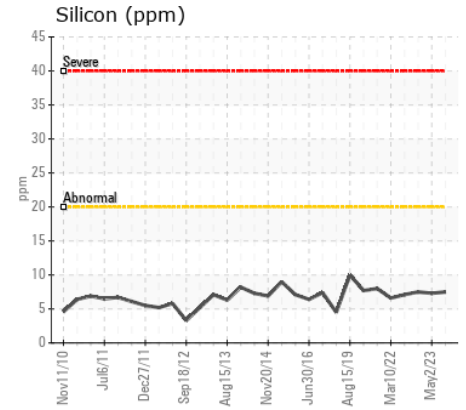
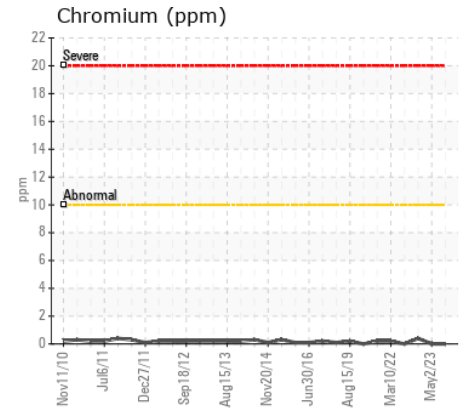
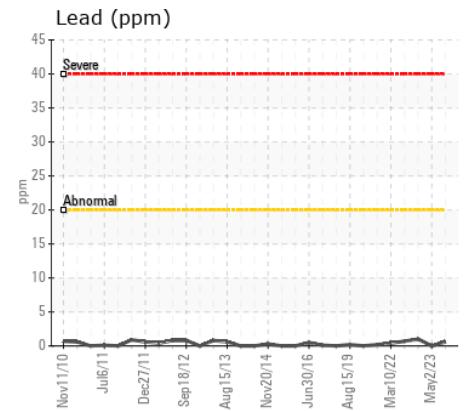
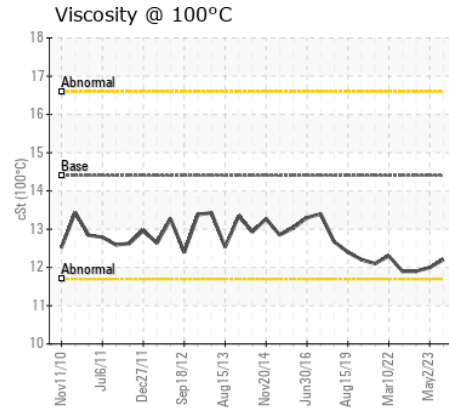
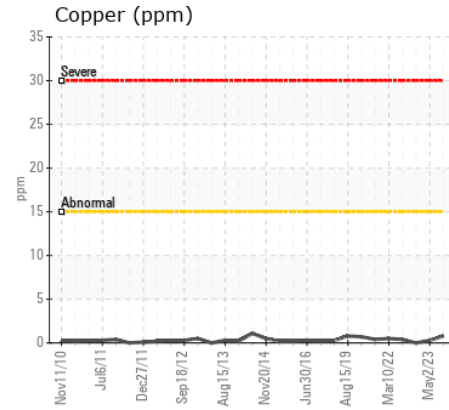
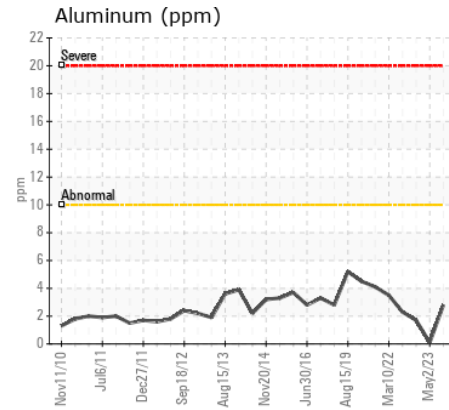
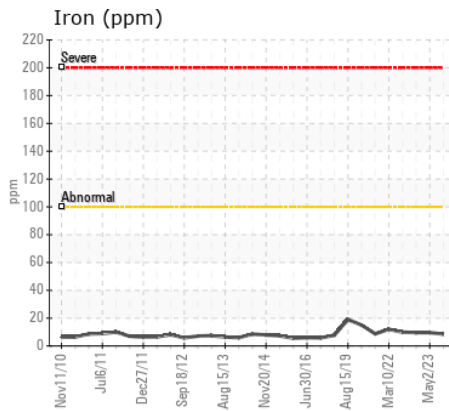
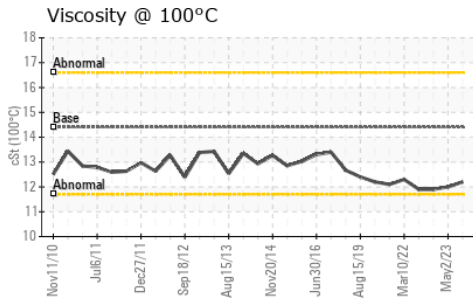
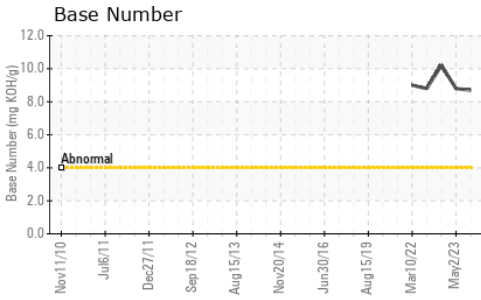
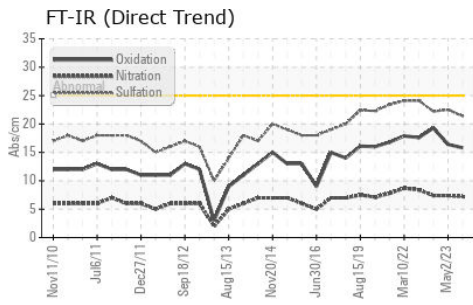
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	8	7	8
Potassium	ppm	ASTM D5185m	>20	3	<1	2
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.2	7.4	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	22.5	22.2
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>50	3	1	1
Boron	ppm	ASTM D5185m		268	272	77
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		80	108	46
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		611	576	523
Calcium	ppm	ASTM D5185m		1447	1465	1754
Phosphorus	ppm	ASTM D5185m		752	690	876
Zinc	ppm	ASTM D5185m		858	845	1134
Sulfur	ppm	ASTM D5185m		2996	2566	3144
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	16.4	19.3
Base Number (BN)	mg KOH/g	ASTM D2896		8.7	8.8	10.2
Visc @ 100°C	cSt	ASTM D445	14.4	12.2	12.0	11.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0012339
Lab Number : 06153689
Unique Number : 10983767
Test Package : MOBCE (Additional Tests: TBN)

Received : 18 Apr 2024
Tested : 19 Apr 2024
Diagnosed : 19 Apr 2024 - Wes Davis

ADVANTAGE METALS RECYCLING - SEDALIA
 300 N IRON AVE
 SEDALIA, MO
 US 65301
 Contact: GREGORY LAND
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 T: (660)827-1873
 F: (660)827-5304

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)