MOB I VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[363]
Machine Id
JOHN DEERE 814432
Component
Diesel Engine
Fluid
SHELL ROTELLA T 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

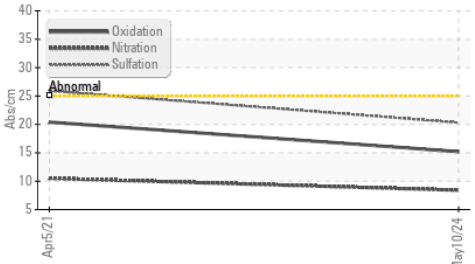
There is no indication of any contamination in the oil.

FLUID CONDITION

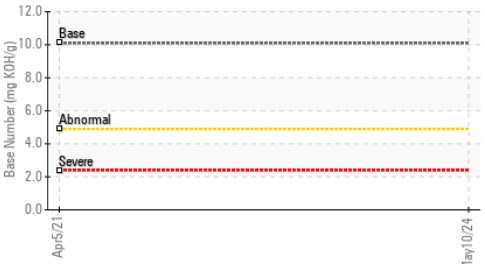
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP397836	VCP310966	---
Sample Date		Client Info		10 May 2024	05 Apr 2021	---
Machine Age	hrs	Client Info		6701	1507	---
Oil Age	hrs	Client Info		500	500	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---
Iron	ppm	ASTM D5185m	>51	31	59	---
Chromium	ppm	ASTM D5185m	>11	<1	2	---
Nickel	ppm	ASTM D5185m	>5	2	18	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>31	2	3	---
Lead	ppm	ASTM D5185m	>26	0	2	---
Copper	ppm	ASTM D5185m	>26	4	54	---
Tin	ppm	ASTM D5185m	>4	<1	2	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>22	20	8	---
Potassium	ppm	ASTM D5185m	>20	7	8	---
Fuel		WC Method	>2.1	<1.0	<1.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	0.6	---
Nitration	Abs/cm	*ASTM D7624	>20	8.4	10.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	25.9	---
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	>0.21	NEG	NEG	---
Sodium	ppm	ASTM D5185m	>31	10	5	---
Boron	ppm	ASTM D5185m	316	65	45	---
Barium	ppm	ASTM D5185m	0.0	0	0	---
Molybdenum	ppm	ASTM D5185m	1.2	33	67	---
Manganese	ppm	ASTM D5185m		<1	2	---
Magnesium	ppm	ASTM D5185m	24	173	232	---
Calcium	ppm	ASTM D5185m	2292	1998	2193	---
Phosphorus	ppm	ASTM D5185m	1064	926	880	---
Zinc	ppm	ASTM D5185m	1160	1126	1129	---
Sulfur	ppm	ASTM D5185m	4996	3418	2656	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	20.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	6.3	---	---
Visc @ 100°C	cSt	ASTM D445	15.7	12.6	12.8	---

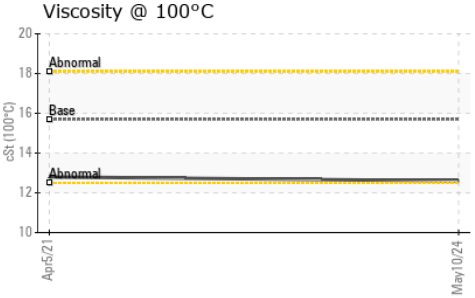
FT-IR (Direct Trend)



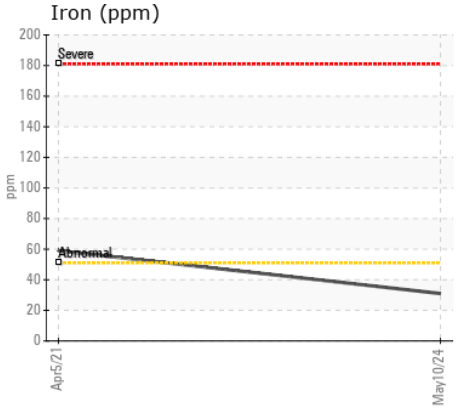
Base Number



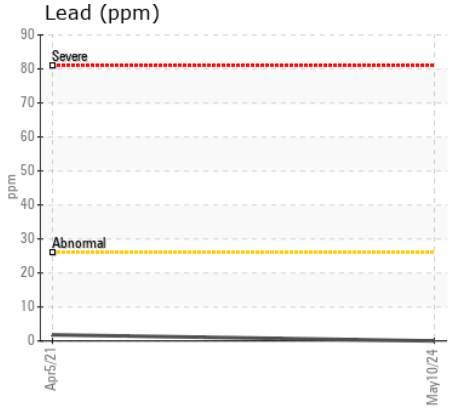
Viscosity @ 100°C



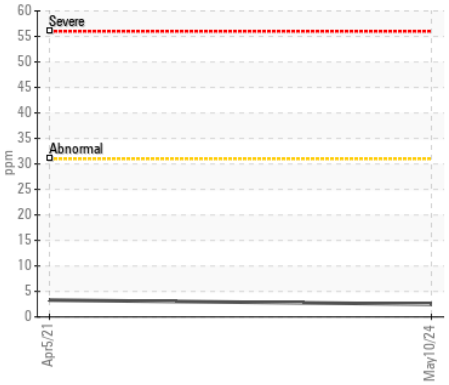
Iron (ppm)



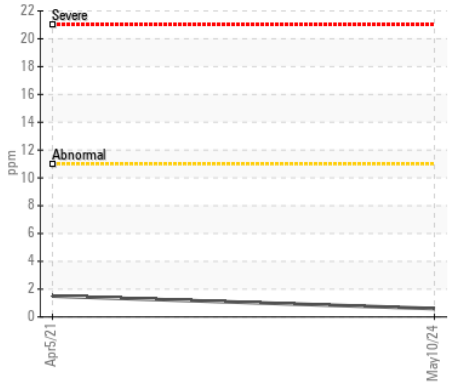
Lead (ppm)



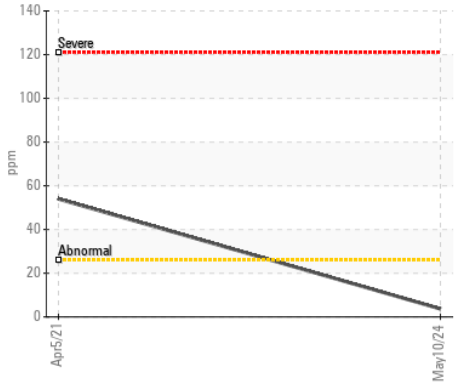
Aluminum (ppm)



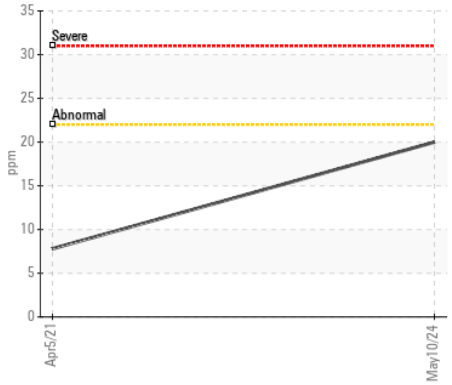
Chromium (ppm)



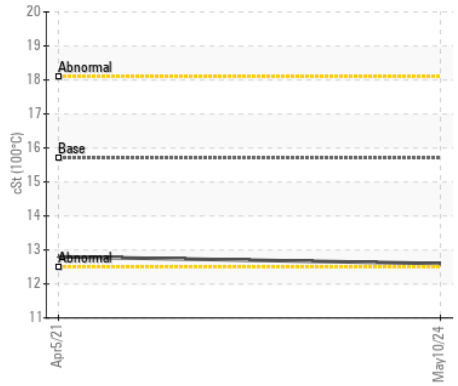
Copper (ppm)



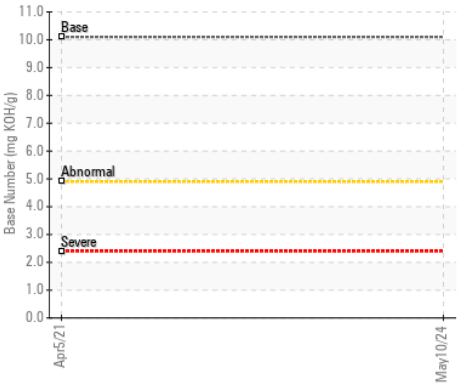
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP397836
Lab Number : 06196512
Unique Number : 11058635
Test Package : MOB 1 (Additional Tests: TBN)

Received : 31 May 2024
Tested : 03 Jun 2024
Diagnosed : 03 Jun 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)

TOTAL DEVELOPMENT SOLUTIONS LLC
7805 PROGRESS CT
GAINESVILLE, VA
US 20155
Contact: JOE SEALE
jseale@totaldevelopmentsolutions.com
T: (703)222-0497
F: (703)753-4586