MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
WIRTGEN 621
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (9 GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

WEAR

All component wear rates are normal.

CONTAMINATION

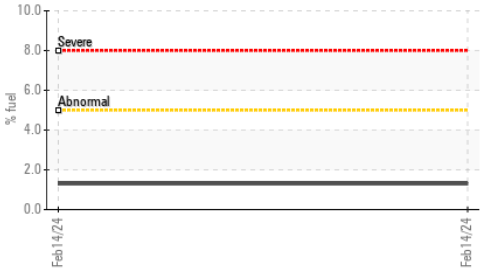
Light fuel dilution occurring. No other contaminants were detected in the oil.

FLUID CONDITION

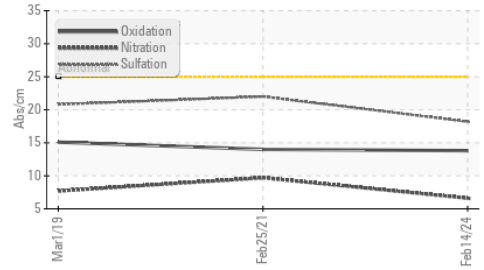
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RW0005473	RW0001971	RWM2321634
Sample Date		Client Info		14 Feb 2024	25 Feb 2021	01 Mar 2019
Machine Age	hrs	Client Info		5346	4207	4262
Oil Age	hrs	Client Info		199	0	0
Filter Age	hrs	Client Info		199	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	11	41	17
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	3	5
Lead	ppm	ASTM D5185m	>40	<1	1	<1
Copper	ppm	ASTM D5185m	>330	6	3	1
Tin	ppm	ASTM D5185m	>15	0	<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	>25	4	<1	5
Potassium	ppm	ASTM D5185m	>20	<1	<1	4
Fuel	%	ASTM D3524	>5	1.3	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	1.7	0.8
Nitration	Abs/cm	*ASTM D7624	>20	6.6	9.7	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	22	20.8
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	>158	<1	3	3
Boron	ppm	ASTM D5185m	250	97	17	152
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	67	71	196
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	456	752	807
Calcium	ppm	ASTM D5185m	3000	1977	1318	1336
Phosphorus	ppm	ASTM D5185m	1150	1153	967	841
Zinc	ppm	ASTM D5185m	1350	1397	1246	932
Sulfur	ppm	ASTM D5185m	4250	4561	2420	3302
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	14	15.1
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.33	9.07	7.12
Visc @ 100°C	cSt	ASTM D445	14.4	12.4	12.8	14.3

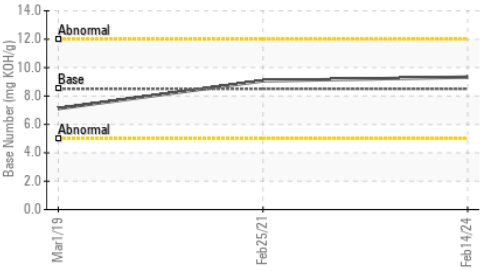
Fuel Dilution



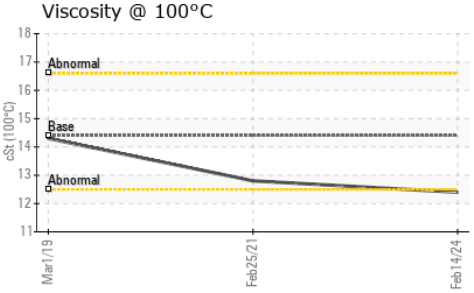
FT-IR (Direct Trend)



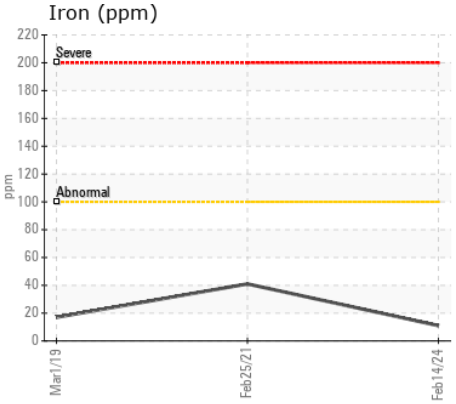
Base Number



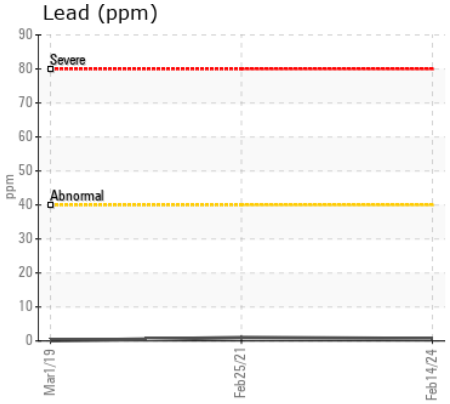
Viscosity @ 100°C



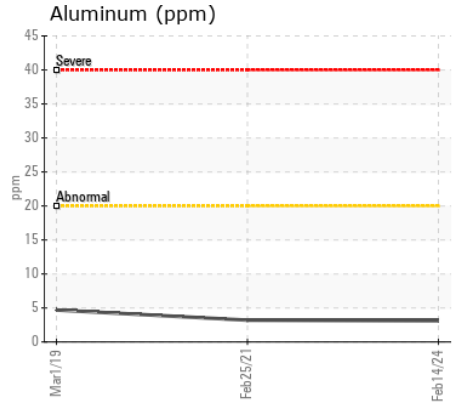
Iron (ppm)



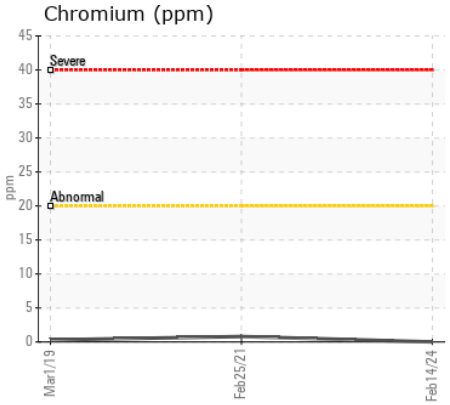
Lead (ppm)



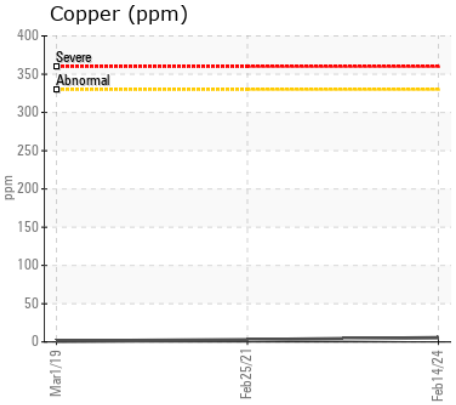
Aluminum (ppm)



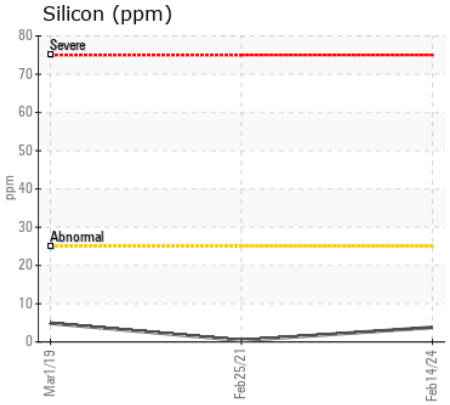
Chromium (ppm)



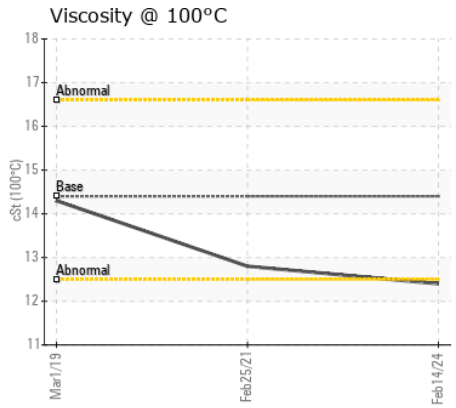
Copper (ppm)



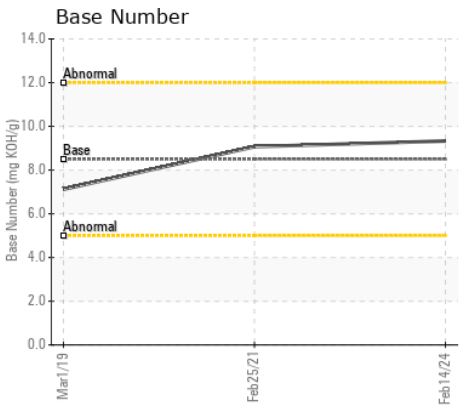
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RW0005473
Lab Number : 06161013
Unique Number : 10996436
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

Received : 25 Apr 2024
Tested : 29 Apr 2024
Diagnosed : 29 Apr 2024 - Wes Davis

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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