James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
000245
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (30 QTS)

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

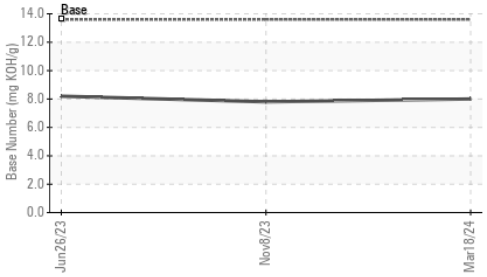
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**JR0208151**	JR0192351	JR0174688
Sample Date		Client Info		**18 Mar 2024**	08 Nov 2023	26 Jun 2023
Machine Age	hrs	Client Info		**1465**	945	467
Oil Age	hrs	Client Info		**987**	478	0
Filter Age	hrs	Client Info		**987**	0	0
Oil Changed		Client Info		**Changed**	N/A	Changed
Filter Changed		Client Info		**Changed**	N/A	Changed
Sample Status				**NORMAL**	NORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>100	**34**	38	45
Chromium	ppm	ASTM D5185m	>20	**1**	<1	<1
Nickel	ppm	ASTM D5185m	>4	**6**	14	7
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m	>3	**0**	0	<1
Aluminum	ppm	ASTM D5185m	>20	**6**	4	5
Lead	ppm	ASTM D5185m	>40	**2**	3	2
Copper	ppm	ASTM D5185m	>330	**20**	48	88
Tin	ppm	ASTM D5185m	>15	**2**	2	5
Vanadium	ppm	ASTM D5185m		**<1**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	**9**	9	11
Potassium	ppm	ASTM D5185m	>20	**3**	<1	6
Fuel	%	ASTM D3524	>5	**<1.0**	<1.0	0.2
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	*ASTM D7844	>3	**0.4**	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	**8.9**	9.1	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	**24.0**	23.9	25.8
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		**2**	3	5
Boron	ppm	ASTM D5185m		**143**	150	193
Barium	ppm	ASTM D5185m		**0**	<1	<1
Molybdenum	ppm	ASTM D5185m		**219**	246	222
Manganese	ppm	ASTM D5185m		**1**	1	2
Magnesium	ppm	ASTM D5185m		**706**	839	856
Calcium	ppm	ASTM D5185m		**1752**	1475	1496
Phosphorus	ppm	ASTM D5185m		**883**	867	850
Zinc	ppm	ASTM D5185m		**1113**	1083	1112
Sulfur	ppm	ASTM D5185m		**3153**	2673	3246
Oxidation	Abs/.1mm	*ASTM D7414	>25	**18.7**	19.9	22.3
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	**8.0**	7.8	8.2
Visc @ 100°C	cSt	ASTM D445	15.4	**12.8**	13.3	11.2

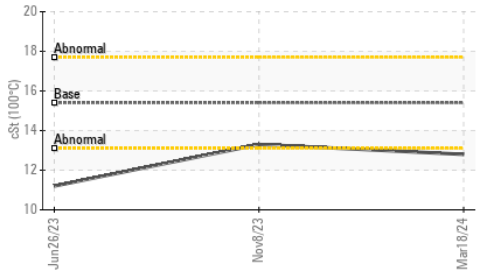
Report Id: CWSMAS [WUSCAR] 06123499 (Generated: 03/22/2024 14:27:54) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

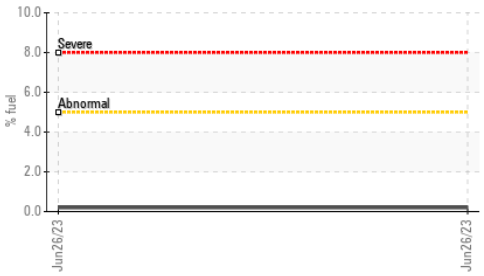
Base Number



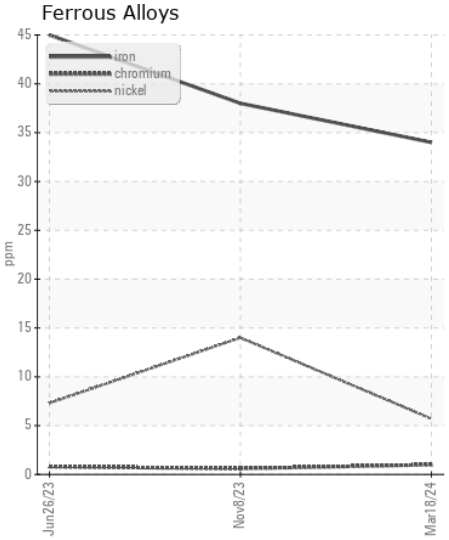
Viscosity @ 100°C



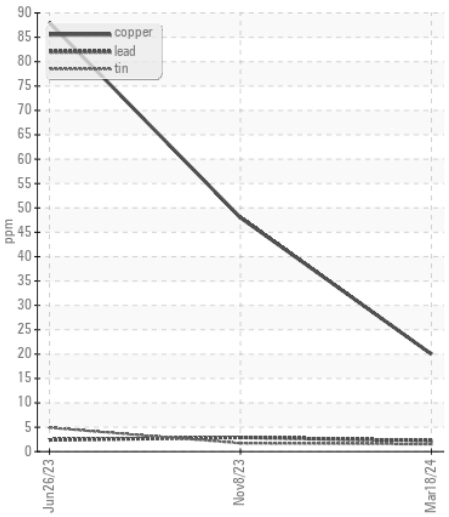
Fuel Dilution



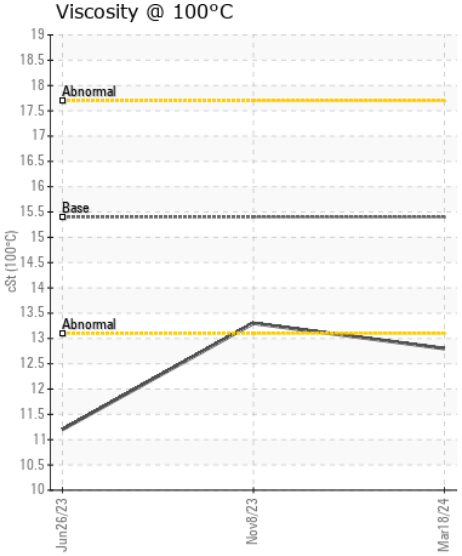
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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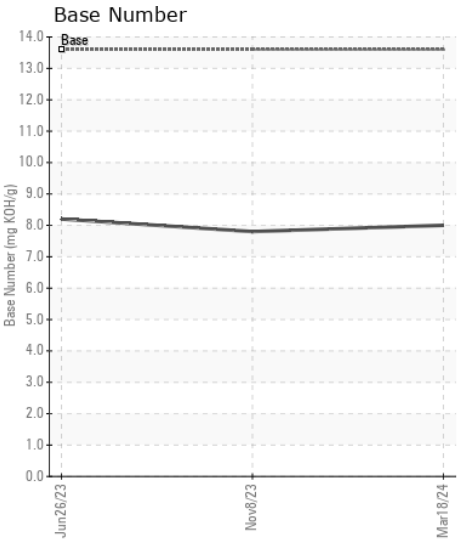

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0208151
Lab Number : 06123499
Unique Number : 10937650
Test Package : CONST (Additional Tests: FuelDilution, TBN)
Received : 20 Mar 2024
Tested : 21 Mar 2024
Diagnosed : 22 Mar 2024 - Don Baldridge

CWS-STRITTMATTER
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MANASSAS PARK, VA
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Certificate L2367

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)