James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
VERMEER TG-7000 TG-6 (S/N X71000144)
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

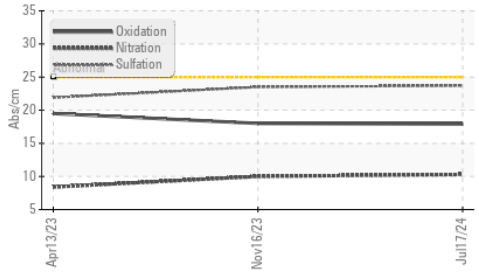
There is no indication of any contamination in the oil.

FLUID CONDITION

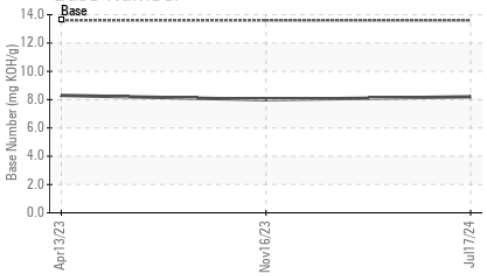
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR06239926	JR0173377	JR0160804
Sample Date		Client Info		17 Jul 2024	16 Nov 2023	13 Apr 2023
Machine Age	hrs	Client Info		10048	9300	8790
Oil Age	hrs	Client Info		748	264	303
Filter Age	hrs	Client Info		0	264	303
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	24	30	54
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	2	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	5	0
Lead	ppm	ASTM D5185m	>40	1	2	6
Copper	ppm	ASTM D5185m	>330	5	▲ 255	27
Tin	ppm	ASTM D5185m	>15	<1	2	6
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	6	6	8
Potassium	ppm	ASTM D5185m	>20	4	0	5
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	0.9	0.8
Nitration	Abs/cm	*ASTM D7624	>20	10.3	10.0	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	23.5	21.9
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		4	<1	13
Boron	ppm	ASTM D5185m		144	206	102
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		237	268	107
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m		797	901	599
Calcium	ppm	ASTM D5185m		1396	1499	1644
Phosphorus	ppm	ASTM D5185m		896	979	931
Zinc	ppm	ASTM D5185m		1008	1161	1123
Sulfur	ppm	ASTM D5185m		3086	2942	2878
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	18.0	19.5
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.2	8.0	8.3
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	14.1	13.6

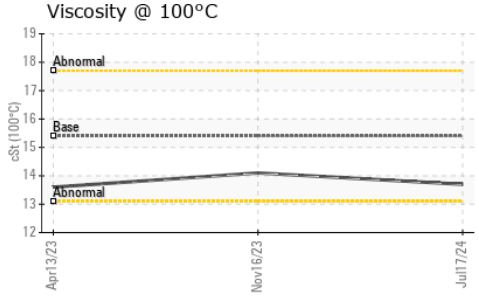
FT-IR (Direct Trend)



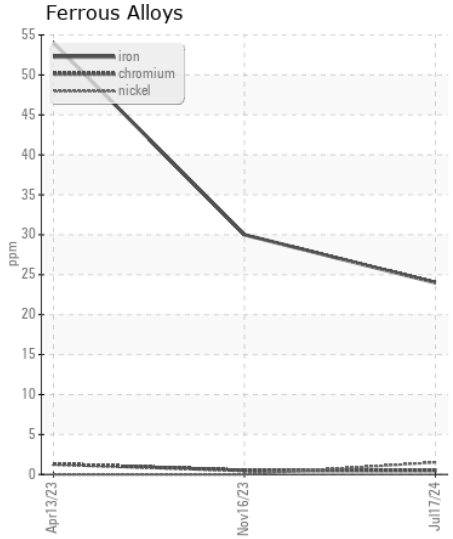
Base Number



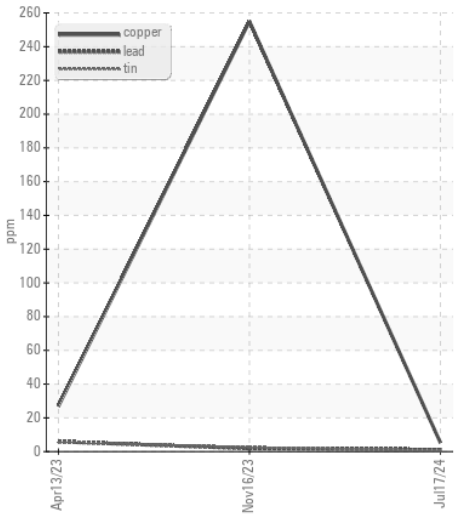
Viscosity @ 100°C



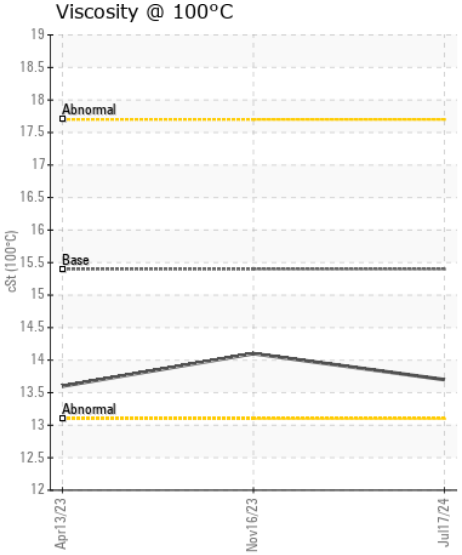
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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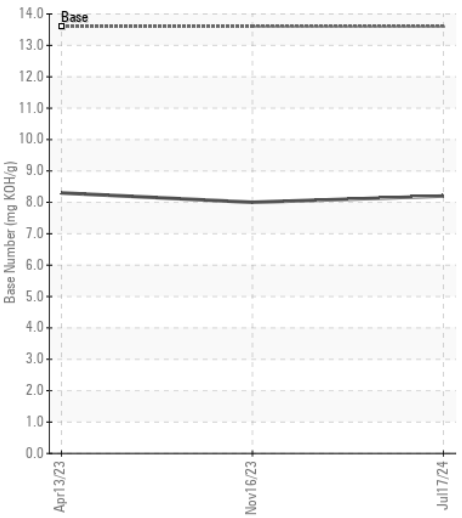

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR06239926
Lab Number : 06239926
Unique Number : 11128760
Test Package : CONST (Additional Tests: TBN)
Received : 18 Jul 2024
Tested : 18 Jul 2024
Diagnosed : 18 Jul 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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