James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 85D 1FF085DXVCG017018
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (3 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

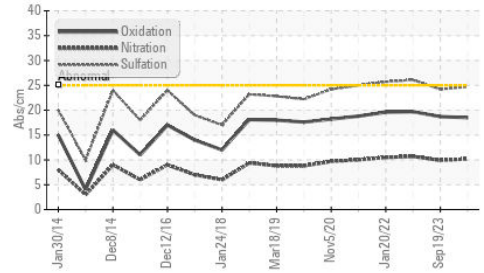
There is no indication of any contamination in the oil.

FLUID CONDITION

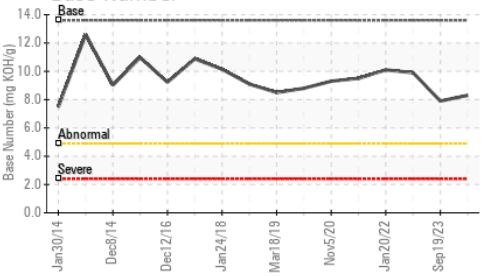
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0223064	JR0187249	JR0145389
Sample Date		Client Info		11 Jul 2024	19 Sep 2023	25 Aug 2022
Machine Age	hrs	Client Info		9340	8787	8136
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>51	20	23	18
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	8	7	7
Lead	ppm	ASTM D5185m	>26	1	1	2
Copper	ppm	ASTM D5185m	>26	2	1	1
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	10	10	8
Potassium	ppm	ASTM D5185m	>20	2	2	2
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.2	1.1	1.1
Nitration	Abs/cm	*ASTM D7624	>20	10.2	9.9	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.7	24.2	26.1
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	>0.21	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>31	1	<1	2
Boron	ppm	ASTM D5185m		156	167	175
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		262	268	244
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		827	792	752
Calcium	ppm	ASTM D5185m		1580	1574	1424
Phosphorus	ppm	ASTM D5185m		982	939	888
Zinc	ppm	ASTM D5185m		1167	1148	1112
Sulfur	ppm	ASTM D5185m		2807	3271	2848
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	18.7	19.7
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.3	7.9	9.9
Visc @ 100°C	cSt	ASTM D445	15.4	14.8	14.7	14.6

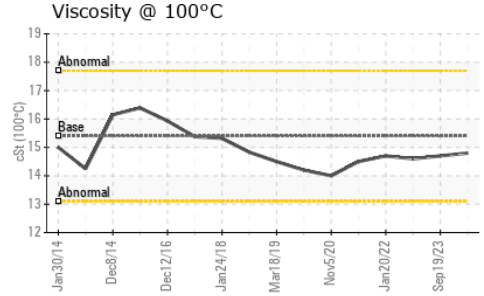
FT-IR (Direct Trend)



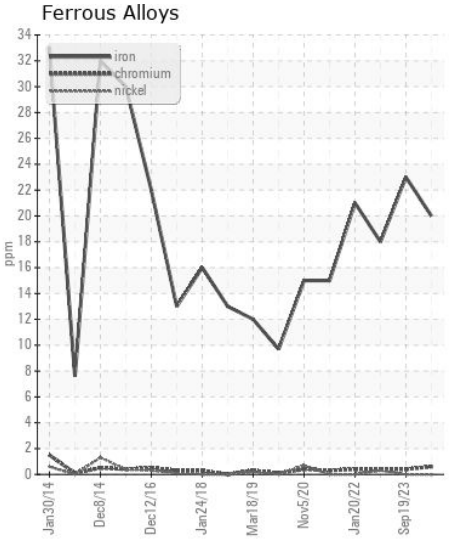
Base Number



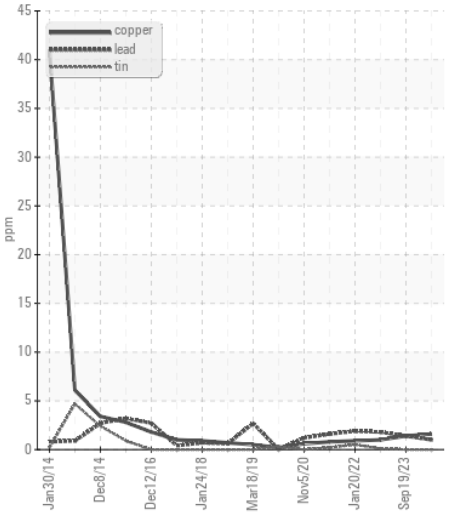
Viscosity @ 100°C



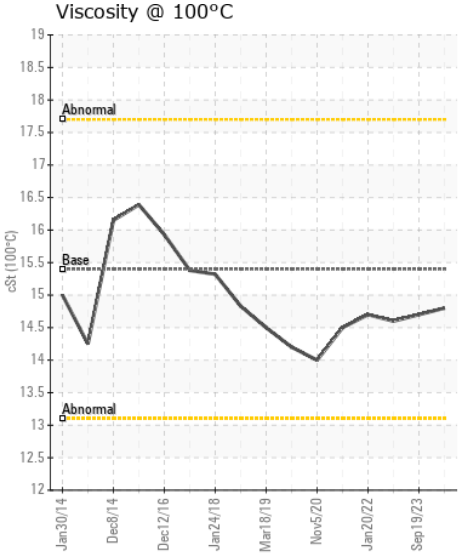
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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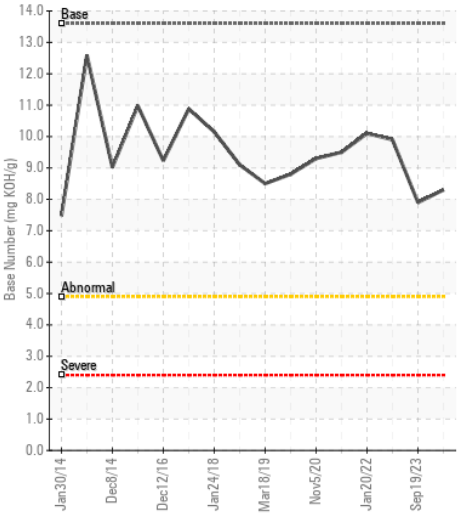

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0223064
Lab Number : 06234627
Unique Number : 11123461
Test Package : CONST (Additional Tests: TBN)

Received : 12 Jul 2024
Tested : 15 Jul 2024
Diagnosed : 15 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)

JRE - GREENSBORO
411 SOUTH REGIONAL ROAD
GREENSBORO, NC
US 27409
Contact: NICK GALLAHER
NGALLAHER@JRENET.COM
T: (336)668-2762
F: (336)665-9556