CHALMERS
Lubrication Service
(704) 660-LUBE(5823)

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 750K DZR-9 (S/N 256523)
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (7 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

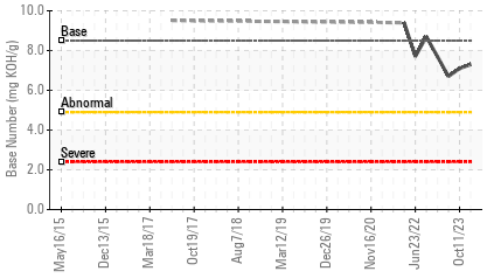
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CL0005253	CL0004814	CL0004203
Sample Date		Client Info		13 Mar 2024	11 Oct 2023	05 Apr 2023
Machine Age	hrs	Client Info		10685	10685	10471
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>51	20	12	33
Chromium	ppm	ASTM D5185m	>11	1	<1	1
Nickel	ppm	ASTM D5185m	>5	3	2	3
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	6	4	4
Lead	ppm	ASTM D5185m	>26	<1	0	0
Copper	ppm	ASTM D5185m	>26	23	<1	10
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	10	8	12
Potassium	ppm	ASTM D5185m	>20	1	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	0.3	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.6	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	17.6	16.5
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	>158	4	2	3
Boron	ppm	ASTM D5185m	250	68	68	62
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	94	97	80
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	450	21	18	24
Calcium	ppm	ASTM D5185m	3000	2312	2310	1986
Phosphorus	ppm	ASTM D5185m	1150	1076	1021	905
Zinc	ppm	ASTM D5185m	1350	1275	1267	1090
Sulfur	ppm	ASTM D5185m	4250	4008	4111	3010
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	13.1	12.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.3	7.1	6.7
Visc @ 100°C	cSt	ASTM D445	14.4	14.4	14.3	14.3

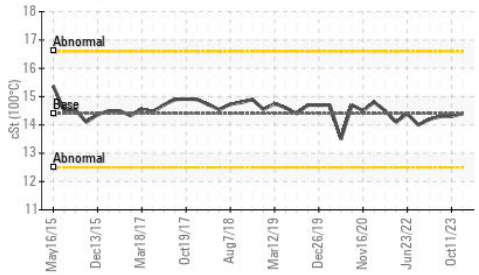
Report Id: PEDMOO [WUSCAR] 06121429 (Generated: 03/20/2024 17:14:05) Rev: 1

Submitted By: JEFF CHALMERS

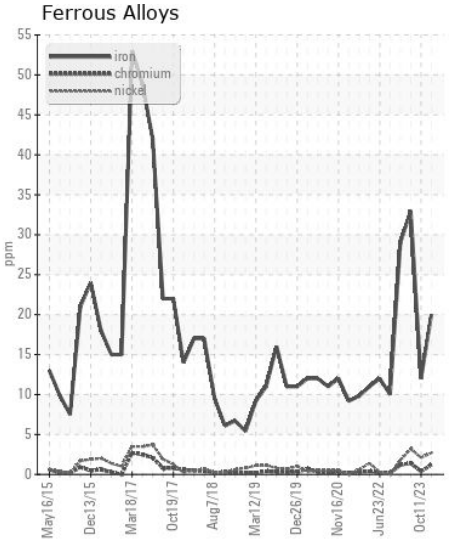
Base Number



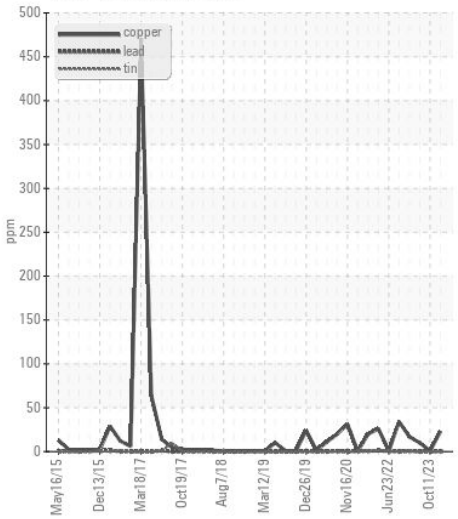
Viscosity @ 100°C



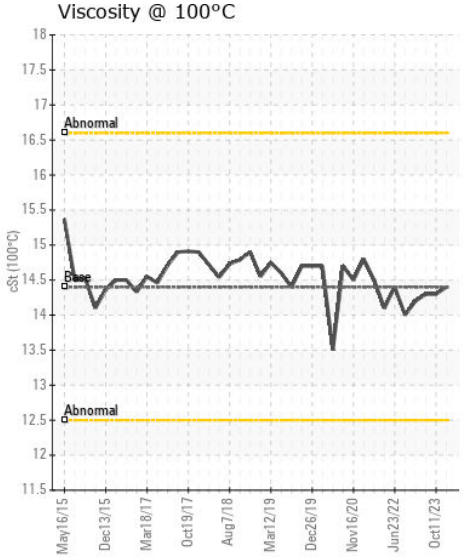
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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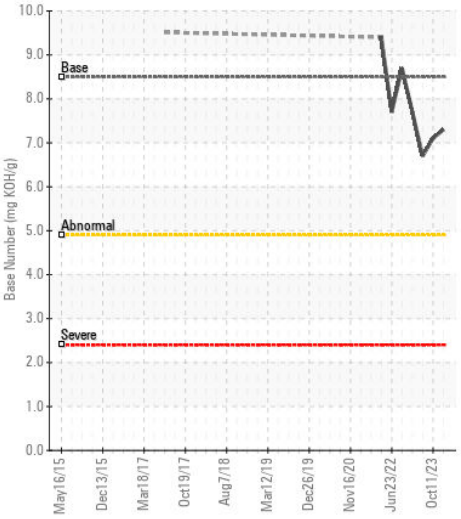

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : CL0005253 **Received** : 18 Mar 2024
Lab Number : 06121429 **Tested** : 19 Mar 2024
Unique Number : 10930262 **Diagnosed** : 20 Mar 2024 - Don Baldridge
Test Package : CONST (Additional Tests: TBN)

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)

PEDULLA
146 MCLELLAND
MOORESVILLE, NC
US 28115
Contact: LARRY
T:
F:

Report Id: PEDMOO [WUSCAR] 06121429 (Generated: 03/20/2024 17:14:09) Rev: 1

Submitted By: JEFF CHALMERS