



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 755K 1047
Component
Diesel Engine
Fluid
DYNAGUARD 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0859414	WC0859392	---
Sample Date		Client Info		22 May 2024	18 Nov 2023	---
Machine Age	hrs	Client Info		4970	4231	---
Oil Age	hrs	Client Info		300	250	---
Filter Age	hrs	Client Info		300	250	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	14	3	---
Chromium	ppm	ASTM D5185m	>11	<1	0	---
Nickel	ppm	ASTM D5185m	>5	1	<1	---
Titanium	ppm	ASTM D5185m		10	22	---
Silver	ppm	ASTM D5185m	>3	1	0	---
Aluminum	ppm	ASTM D5185m	>31	4	3	---
Lead	ppm	ASTM D5185m	>26	<1	<1	---
Copper	ppm	ASTM D5185m	>26	2	<1	---
Tin	ppm	ASTM D5185m	>4	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

There is no indication of any contamination in the oil.

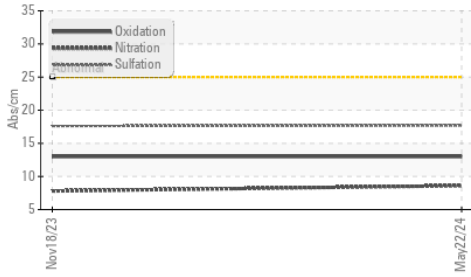
Silicon	ppm	ASTM D5185m	>22	7	5	---
Potassium	ppm	ASTM D5185m	>20	3	1	---
Fuel		WC Method	>2.1	<1.0	<1.0	---
Water	%	ASTM D6304	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.2	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	8.6	7.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	17.6	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	---

FLUID CONDITION

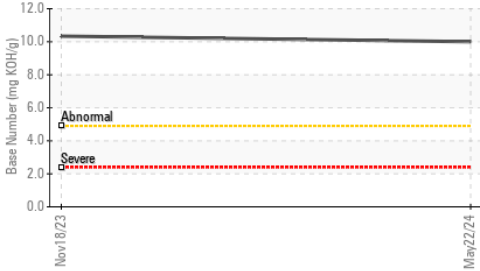
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	3	2	---
Boron	ppm	ASTM D5185m		62	91	---
Barium	ppm	ASTM D5185m		<1	0	---
Molybdenum	ppm	ASTM D5185m		77	68	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		102	181	---
Calcium	ppm	ASTM D5185m		1789	1959	---
Phosphorus	ppm	ASTM D5185m		860	1043	---
Zinc	ppm	ASTM D5185m		1049	1231	---
Sulfur	ppm	ASTM D5185m		3392	3971	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	13.0	---
Base Number (BN)	mg KOH/g	ASTM D2896		10.00	10.34	---
Visc @ 100°C	cSt	ASTM D445		13.2	13.3	---

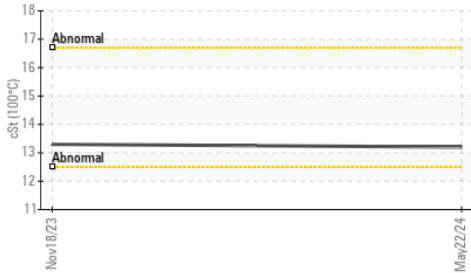
FT-IR (Direct Trend)



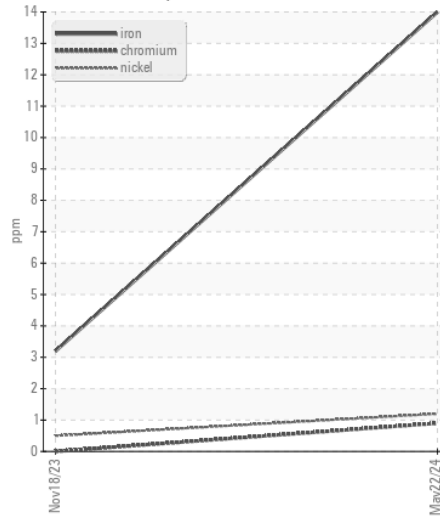
Base Number



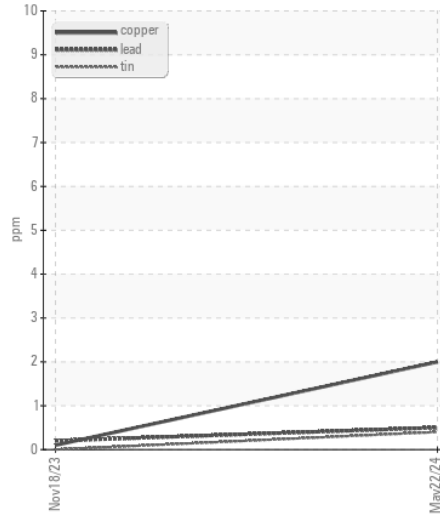
Viscosity @ 100°C



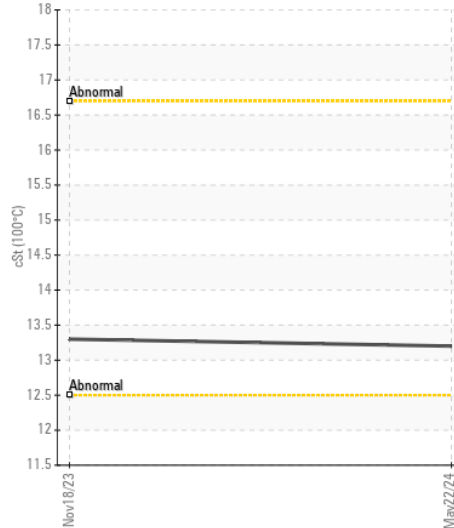
Ferrous Alloys



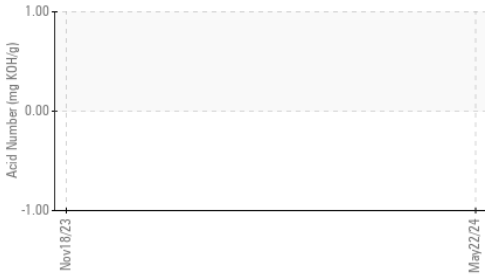
Non-ferrous Metals



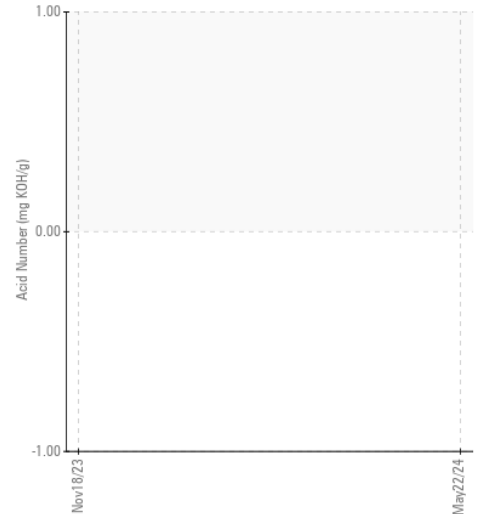
Viscosity @ 100°C



Acid Number



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0859414 **Received** : 28 May 2024
Lab Number : 06193035 **Tested** : 30 May 2024
Unique Number : 11049787 **Diagnosed** : 30 May 2024 - Sean Felton
Test Package : PLANT (Additional Tests: FT-IR, KV100, TBN)

KERSEY VALLEY LANDFILL
 3940 KIVETT DRIVE
 JAMSTOWN, NC
 US 27282
 Contact: Service Manager

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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F: