

Machine Id Component Diesel Engine

JOHN DEERE 624K 624K-3 (S/N THCE645113)

MOBIL DELVAC SUPER 1400 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TLY0002436	TLY0002036	TLY0001413
	Sample Date		Client Info		22 May 2024	20 Oct 2023	10 May 2023
	Machine Age	hrs	Client Info		11702	11181	10553
	Oil Age	hrs	Client Info		11181	628	514
	Filter Age	hrs	Client Info		11181	628	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	26	31	33
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	1	2
	Nickel	ppm	ASTM D5185m		<1	<1	2
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		2	2	2
	Lead	ppm	ASTM D5185m	>26	0	<1	0
	Copper	ppm	ASTM D5185m		5	3	5
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ASTM D5185m		7	0	0
		ppm			7 0	8	8
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m		-	<1.0	
			WC Method		<1.0		<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.6	0.9	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	10.7	9.1
	Sulfation	Abs/.1mm	*ASTM D7415		21.5	21.5	20.8
	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	NORMI
	Odor Emulsified Water	scalar	*Visual *Visual	NORML >0.21	NORML NEG	NORML NEG	NORMI NEG
		scalar	VISUAI	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4	4	4
The DN yearshindiantee that there is exitable ellectricity years in the	Boron	ppm	ASTM D5185m		41	19	27
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	2
	Molybdenum	ppm	ASTM D5185m		47	57	56
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		564	596	720
	Calcium	ppm	ASTM D5185m		1928	1618	1539
	Phosphorus	ppm	ASTM D5185m		874	813	926
	Zinc	ppm	ASTM D5185m		1004	1015	1115
	Sulfur	ppm	ASTM D5185m		3134	2618	2950
	Oxidation		*ASTM D7414	>25	20.7	20.7	18.6
	Base Number (BN)				9.2	8.8	9.3
	()		10714 0 445	1 = 0			

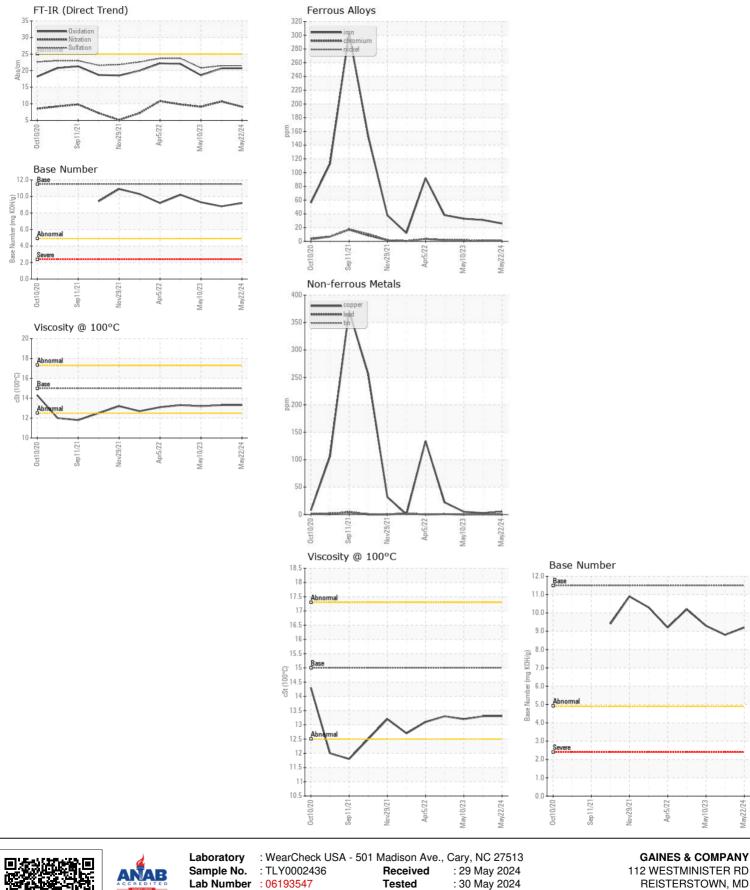
Visc @ 100°C cSt

ASTM D445 15.0

13.3

13.2

13.3



Diagnosed

: 30 May 2024 - Wes Davis

REISTERSTOWN, MD US 21136 Contact: LANCE TANCRAITOR ltancraitor@gainesandco.com T: (410)833-9833 F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

Unique Number : 11050299

Test Package : CONST (Additional Tests: TBN)

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Submitted By: BRANDY BADING Page 2 of 2