OIL ANALYSIS REPORT			WEAR CONTAMINATION FLUID CONDITION			NORMAL									
								Area Store 4 - Fairmont JOHN DEERE 850K 1T085 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLU	-		-				
								RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0049407	LEC0039491	LEC003020								
	Sample Date		Client Info		02 Jul 2024	30 May 2023	21 Jul 202								
	Machine Age	hrs	Client Info		3845	3576	3193								
	Oil Age	hrs	Client Info		0	0	293								
	Filter Age	hrs	Client Info		0	0	293								
	Oil Changed		Client Info		Changed	Changed	Changeo								
	Filter Changed		Client Info		Changed	Changed	Change								
	Sample Status				NORMAL	NORMAL	NORMA								
WEAR	Iron	ppm	ASTM D5185m	>51	12	12	9								
	Chromium	ppm	ASTM D5185m		0	0	<1								
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0								
	Titanium	ppm	ASTM D5185m		0	0	<1								
	Silver	ppm	ASTM D5185m	>3	0	0	0								
	Aluminum	ppm	ASTM D5185m		1	3	2								
	Lead	ppm	ASTM D5185m		0	0	0								
	Copper	ppm	ASTM D5185m	>26	0	<1	<1								
	Tin	ppm	ASTM D5185m	>4	0	0	<1								
	Vanadium	ppm	ASTM D5185m		0	<1	<1								
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE								
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE								
CONTAMINATION	Silicon	ppm	ASTM D5185m	>120	5	10	7								
	Potassium	ppm	ASTM D5185m		0	0	0								
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0	<1.0	<1.0								
	Water		WC Method		NEG	NEG	NEG								
	Glycol		WC Method		NEG	NEG	NEG								
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.1								
	Nitration	Abs/cm	*ASTM D7624	>20	6.4	7.2	7.0								
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	21.7	22.8								
	Silt	scalar	*Visual	NONE	NONE	NONE	NON								
	Debris	scalar	*Visual	NONE	NONE	NONE	NON								
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE								
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM								
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM								
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG								
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	3	1								
	Boron	ppm	ASTM D5185m		77	369	446								
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	<1	0								
	Molybdenum	ppm	ASTM D5185m		77	121	122								
	Manganese	ppm	ASTM D5185m		<1	<1	<1								
	Magnesium	ppm	ASTM D5185m		845	500	557								
	Calcium	ppm	ASTM D5185m		1251	1558	1512								
	Phosphorus	ppm	ASTM D5185m		1028	835	891								
	Zinc	ppm	ASTM D5185m		1215	1062	1053								
	Sulfur	ppm	ASTM D5185m		3671	2940	3702								
	Ovidation	Abe/ 1mm		> 25	14.4	17.6	17 1								

Oxidation Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896 13.6

Visc @ 100°C cSt ASTM D445 15.4

8.6 10.2

17.1

14.5

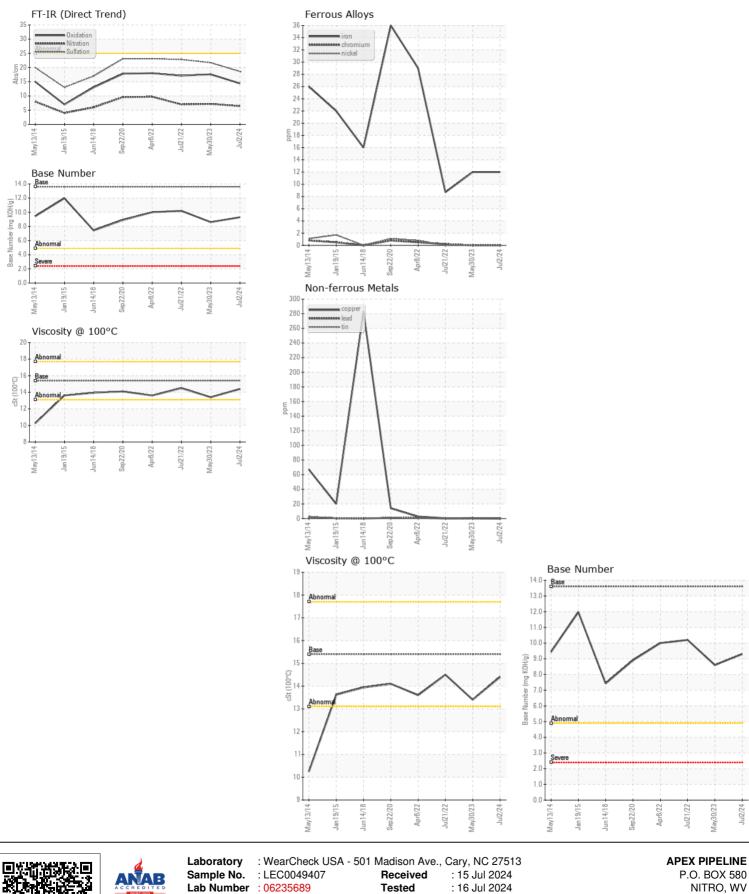
14.4

9.3

14.4

17.6

13.4



 Lab Number:
 U0235689
 Tested
 : 16 Jul 2024
 NITRO, WV

 Unique Number:
 : 11124523
 Diagnosed
 : 16 Jul 2024 - Don Baldridge
 US 25143

 Certificate 12367
 Test Package
 : CONST (Additional Tests: TBN)
 Contact: KELLY TUCKER

 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.
 T: (304)204-0080

 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)
 F: (304)204-0083

Report Id: APENIT [WUSCAR] 06235689 (Generated: 07/16/2024 13:06:08) Rev: 1

Submitted By: ?

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