



JOHN DEERE 744K 047-0043 onen

Diesel Engine

SCHAEFFER SUPREME 7000 (9 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Schaeffer's 15w-40 hours 16184)	Sample Number		Client Info		WC0903847	WC0903838	WC086834
	Sample Date		Client Info		18 Apr 2024	16 Feb 2024	05 Feb 202
	Machine Age	hrs	Client Info		16184	15794	15718
	Oil Age	hrs	Client Info		15794	0	0
	Filter Age	hrs	Client Info		15718	0	0
	Oil Changed		Client Info		Changed	Not Changd	Changeo
	Filter Changed		Client Info		Changed	Not Changd	Changeo
	Sample Status				ABNORMAL	NORMAL	ABNORM
WEAR	Iron	ppm	ASTM D5185m	>51	5 6	12	1
	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
The iron level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	0	<1	1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	4	4	5
	Lead	ppm	ASTM D5185m	>26	0	<1	<1
	Copper	ppm	ASTM D5185m	>26	<1	<1	0
	Tin	ppm	ASTM D5185m	>4	0	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	6	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4	2	4
	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		0.2	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624		8.7	7.4	8.5
	Sulfation	Abs/.1mm	*ASTM D7415		18.6	17.5	18.4
	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	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	1	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		62	93	62
	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m	50	76	79	73
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		29	13	30
	Calcium	ppm	ASTM D5185m		2190	2266	2126
	Phosphorus	ppm	ASTM D5185m		1007	1124	1087
	Zinc	ppm	ASTM D5185m	1060	1246	1278	1272

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m 4000

ASTM D445 15

Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896 10

5949

13.6

6.8

14.4

5228

6.4

14.3

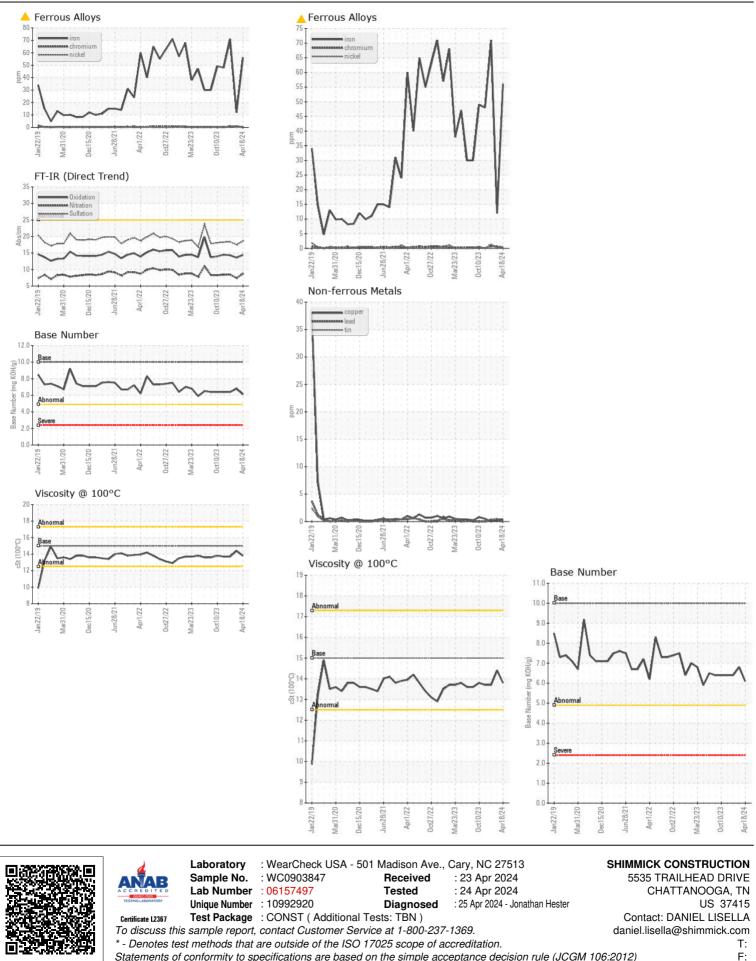
13.7

5825

14.4

6.1

13.8



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: TECH TECHNICIAN Page 2 of 2