

Component	CATERPILLAR 299D SKIDSTEER 040-0019 (S/N CAT0299DAFD204356)							
Diesel En Fuid SCHAEFF	gine ER SUPREME 7000 ((3 GAL)						
RECOMMENDATION		Test Sample Number	UOM	Method Client Info	Limit/Abn	Current WC0868282	History1 WC0903927	History2 WC0903957
Resample at the next service interval to monitor. (Customer Sample Comment: Engine oil sample @ 12216 hours)		Sample Date		Client Info		12 Jun 2024	01 May 2024	12 Mar 2024
		Machine Age	hrs	Client Info		12216	11951	11644
		Oil Age	hrs	Client Info		11951	11644	0
		Filter Age	hrs	Client Info		0	11644	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	>100	<1	2	3
All component wear rates are normal.		Chromium	ppm	ASTM D5185m	>20	0	0	<1
		Nickel	ppm	ASTM D5185m	>2	0	0	<1
		Titanium	ppm	ASTM D5185m	>2	0	0	0
		Silver	ppm	ASTM D5185m	>2	0	0	0
		Aluminum	ppm	ASTM D5185m	>25	3	2	2
		Lead	ppm	ASTM D5185m	>40	0	<1	0
		Copper	ppm	ASTM D5185m	>330	<1	0	<1
		Tin	ppm	ASTM D5185m	>15	0	0	0
		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	ppm	ASTM D5185m	>25	4	3	4	
There is no indication of any contamination in the oil.		Potassium	ppm	ASTM D5185m	>20	3	0	1
		Fuel		WC Method	>5	<1.0	<1.0	<1.0
		Water		WC Method	>0.2	NEG	NEG	NEG
		Glycol		WC Method		NEG	NEG	NEG
		Soot %	%	*ASTM D7844		0.1	0.1	0.1
		Nitration	Abs/cm	*ASTM D7624	>20	9.3	9.5	10.1
		Sulfation	Abs/.1mm	*ASTM D7415		18.4	18.7	18.9
		Silt	scalar	*Visual	NONE	NONE	NONE	NONE
		Debris	scalar	*Visual	NONE	NONE	NONE	NONE
		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
		Appearance Odor	scalar	*Visual	NORML	NORML	NORML	NORML
		Emulsified Water	scalar scalar	*Visual *Visual	NORML >0.2	NORML NEG	NORML NEG	NEG
FLUID CONDITION		Sodium	ppm	ASTM D5185m		2	<1	1
The BN result indicates that there is suit	table alkalinity remaining in the	Boron	ppm	ASTM D5185m		63	60	75
oil. The condition of the oil is acceptable for the		Barium	ppm	ASTM D5185m	FO	0	0	<1
		Molybdenum	ppm	ASTM D5185m	50	72	73	71
		Manganese	ppm	ASTM D5185m ASTM D5185m	1000	<1 22	0 11	0
		Magnesium	ppm	ASTM D5185m	1000	22	2302	14

Calcium

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

Phosphorus

ppm

ppm

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

ASTM D5185m 1400

ASTM D5185m 1060

ASTM D445 15

ppm ASTM D5185m 985

ppm ASTM D5185m 4000

Abs/.1mm *ASTM D7414 >25

2175

1019

1181

5713

15.2

5.5

13.9

2302

1046

1249

6179

15.5

5.5

13.7

2163

1214

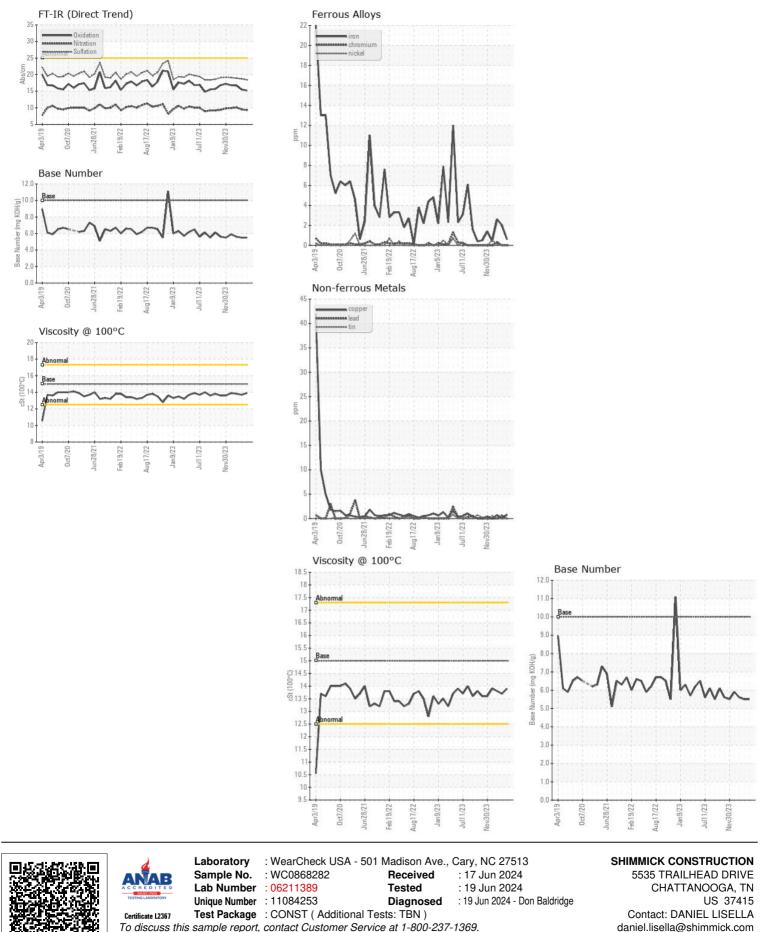
16.7

5.6

13.8

1100

5346



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)

Submitted By: TECH TECHNICIAN Page 2 of 2

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