

Machine Id 032-R0002 Component Diesel Engine Fluid SCHAEFFER SUPREME 7000 SAE 10W30 (--- GAL) RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the component make and model with your next sample.

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All component wear rates are normal.

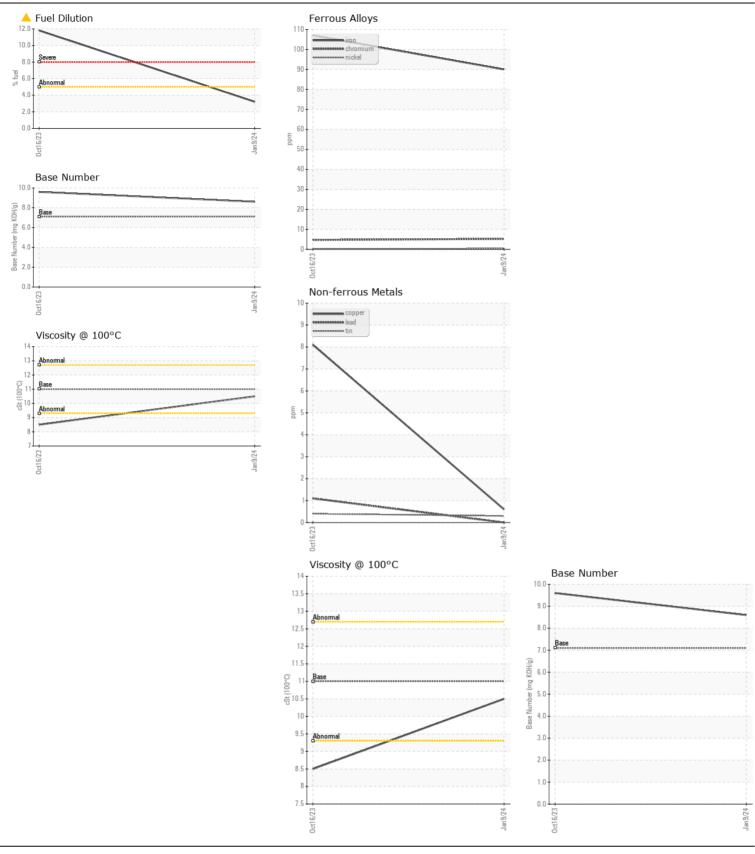
CONTAMINATION

Light fuel dilution occurring. No other contaminants were detected in the oil.

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0868384	WC0750610	
Sample Date		Client Info		09 Jan 2024	16 Oct 2023	
Machine Age	hrs	Client Info		0	146	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Changed	Changed	
Sample Status				MARGINAL	SEVERE	
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Iron	ppm	ASTM D5185m	>100	90	107	
Chromium	ppm	ASTM D5185m	>20	5	5	
Nickel	ppm	ASTM D5185m	>4	<1	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	12	18	
Lead	ppm	ASTM D5185m	>40	0	1	
Copper	ppm	ASTM D5185m	>330	<1	8	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>25	23	19	
Potassium	ppm	ASTM D5185m	>20	2	<1	
Fuel	%	ASTM D3524	>5	A 3.2	11.8	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
Soot %	%	*ASTM D7844	>3	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	7.8	9.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.6	16.1	
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	>0.2	NEG	NEG	
Sodium	nom	ASTM D5185m		3	5	
-	ppm	ASTM D5185m ASTM D5185m	0		= 0	
Boron	ppm		0	51 0	50	
Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m	200	0 207	22 34	
	ppm		300		5	
Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m	0	1 539	29	
Calcium	ppm	ASTM D5185m ASTM D5185m	0 2025	539 1652	29	
	ppm	ASTM D5185m ASTM D5185m			733	
Phosphorus	ppm		900	886		
Zinc	ppm	ASTM D5185m	1000	1092	990	
Sulfur	ppm	ASTM D5185m	2800	3476	2819	
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.3	11.0	
Base Number (BN)	mg KOH/g	ASTM D2896	7.1	8.6	9.6	
Visc @ 100°C	cSt	ASTM D445	11	10.5	8 .5	



SHIMMICK CONSTRUCTION Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0868384 Recieved : 30 Jan 2024 5535 TRAILHEAD DRIVE 萨 Lab Number : 06073593 Diagnosed CHATTANOOGA, TN : 31 Jan 2024 : 10850270 Diagnostician : Wes Davis Unique Number US 37415 Test Package : CONST (Additional Tests: PercentFuel, TBN) Contact: DANIEL LISELLA Certificate L2367 daniel.lisella@shimmick.com 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. Т: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: