

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 040-R006

Component Diesel Engine Fluid SCHAEFFER SUPREME 7000 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

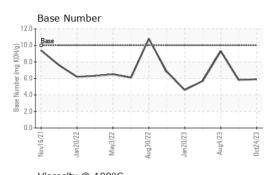
Fluid Condition

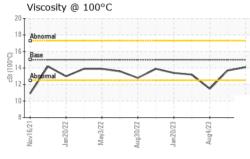
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0868272	WC0815199	WC0815218
Sample Date		Client Info		24 Oct 2023	19 Sep 2023	04 Aug 2023
Machine Age	hrs	Client Info		5972	5621	5185
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	MARGINAL	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	3 .3	5 .1
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	6	10	15
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	<1	4
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	1	6	13
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		54	39	36
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m	50	70	67	47
Manganese	ppm	ASTM D5185m		<1	0	2
Magnesium	ppm	ASTM D5185m	1000	17	46	453
Calcium	ppm	ASTM D5185m	1400	2184	2297	2002
Phosphorus	ppm	ASTM D5185m	985	1067	1058	961
Zinc				1067	1056	00.
200	ppm	ASTM D5185m	1060	1339	1332	1171
-	ppm ppm	ASTM D5185m ASTM D5185m	1060 4000			
-	ppm			1339	1332	1171
Sulfur CONTAMINANTS	ppm	ASTM D5185m	4000	1339 5244	1332 6025	1171 3848
Sulfur CONTAMINANTS Silicon	ppm	ASTM D5185m method	4000 limit/base	1339 5244 current	1332 6025 history1	1171 3848 history2
Sulfur CONTAMINANTS Silicon Sodium	ppm ppm	ASTM D5185m method ASTM D5185m	4000 limit/base >25	1339 5244 current 5	1332 6025 history1 6	1171 3848 history2 19
Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	4000 limit/base >25	1339 5244 current 5 1	1332 6025 history1 6 4	1171 3848 history2 19 2
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	4000 limit/base >25 >20	1339 5244 current 5 1 <1	1332 6025 history1 6 4 2	1171 3848 history2 19 2 0
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	4000 limit/base >25 >20 limit/base >3	1339 5244 current 5 1 <1 <1	1332 6025 history1 6 4 2 history1	1171 3848 history2 19 2 0 0 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	4000 limit/base >25 >20 limit/base >3 >20	1339 5244 current 5 1 <1 <1 current 0.2	1332 6025 history1 6 4 2 history1 0.2	1171 3848 history2 19 2 0 0 history2 0.2
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7824	4000 limit/base >25 >20 limit/base >3 >20	1339 5244 current 5 1 <1 <1 current 0.2 9.7	1332 6025 history1 6 4 2 history1 0.2 10.1	1171 3848 history2 19 2 0 0 history2 0.2 7.8
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	4000 limit/base >25 >20 limit/base >3 >20 >30 limit/base	1339 5244 current 5 1 <1 <1 current 0.2 9.7 19.5	1332 6025 history1 6 4 2 history1 0.2 10.1 20.1	1171 3848 history2 19 2 0 0 history2 0.2 7.8 21.6

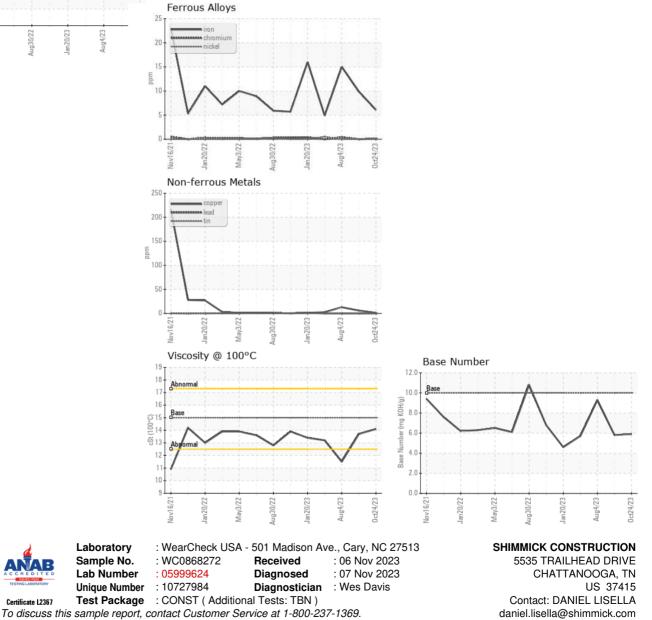


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15	14.1	13.7	1 1.5
GRAPHS						



Certificate L2367

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