

OIL ANALYSIS REPORT



Machine Id **156** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 40 (--- GAL)**

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

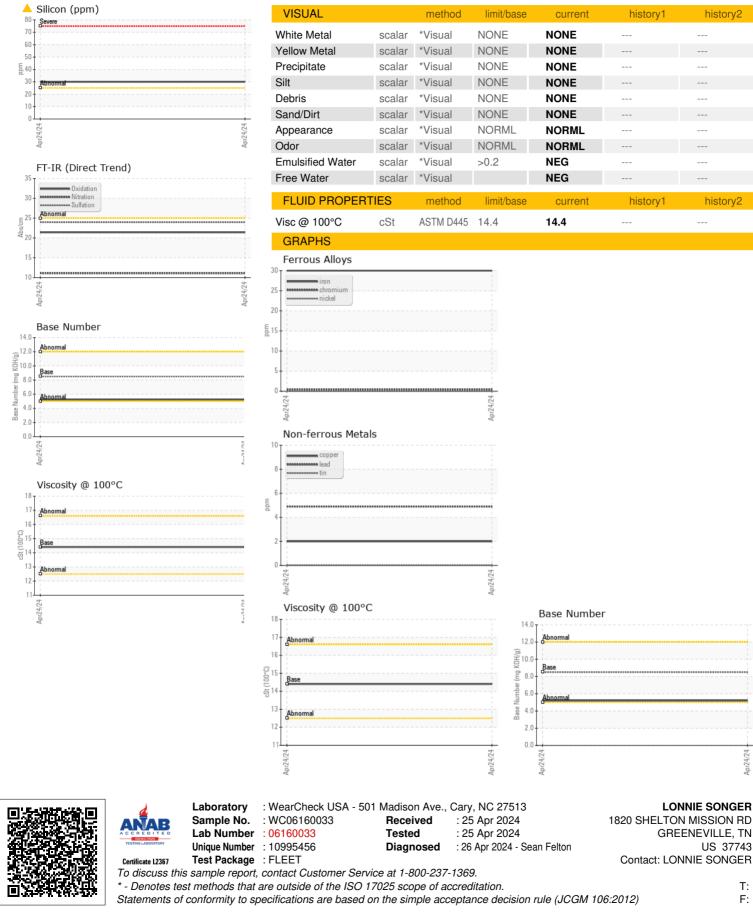
Fluid Condition

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.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06160033		
Sample Date		Client Info		24 Apr 2024		
Machine Age	mls	Client Info		0		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	30		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m	- 1	31		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm		>20	5		
Lead	ppm	ASTM D5185m	>40	5		
Copper	ppm		>330	2		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m	210	0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES	1-1-	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	74 0		
Barium	ppm	ASTM D5185m	10	43		
Molybdenum	ppm	ASTM D5185m	100	-		
Manganese	ppm	ASTM D5185m	450	<1		
Magnesium Calcium	ppm	ASTM D5185m	3000	365 2111		
	ppm	ASTM D5185m	1150	1111		
Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m	1350	1385		
-	ppm	ASTIVI DOTODITI	1330	1300		
Sulfur	nnm	ASTM D5185m	1250	4377		
Sulfur	ppm	ASTM D5185m	4250	4377		
CONTAMINANTS		method	limit/base	current	history1	 history2
CONTAMINANTS Silicon	ppm	method ASTM D5185m	limit/base >25	current	history1	history2
CONTAMINANTS Silicon Sodium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >25 >216	current ▲ 30 5	history1 	history2
CONTAMINANTS Silicon Sodium Potassium	ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >216 >20	current ▲ 30 5 3	history1 	history2
CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >25 >216	current ▲ 30 5 3 current	history1 	history2
CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm %	method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >25 >216 >20 limit/base >3	current ▲ 30 5 3 current 0.2	history1 	history2
CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm	method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >25 >216 >20 limit/base	current ▲ 30 5 3 current 0.2 11.1	history1 history1	history2 history2
CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm %	method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >25 >216 >20 limit/base >3	current ▲ 30 5 3 current 0.2	history1 history1 	history2 history2
CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7844	limit/base >25 >216 >20 limit/base >3 >20	current ▲ 30 5 3 current 0.2 11.1	history1 history1 	history2 history2
CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	methodASTM D5185mASTM D5185mASTM D5185m*ASTM D7844*ASTM D7844*ASTM D7624*ASTM D7415	limit/base >25 >216 >20 limit/base >3 >20 >30	current ▲ 30 5 3 current 0.2 11.1 23.9	history1 history1	history2 history2
CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415 method	limit/base >25 >216 >20 limit/base >3 >20 >30 limit/base	Current 30 5 3 Current 0.2 11.1 23.9 Current	history1 history1 history1 history1	history2 history2 history2 history2



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Contact/Location: LONNIE SONGER - LONGRETN