

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id **13059** Component **Diesel Engine** Fluid **{not provided} (--- GAL)**

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

🔺 Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

Contamination

Fuel content negligible. 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	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0896146		
Sample Date		Client Info		06 May 2024		
Machine Age	mls	Client Info		32382		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATION	N	method	limit/base	current	historv1	history2
Wator	•	WC Mothod	>0.2	NEC	· ···etery ·	
Glycol		WC Method	>0.2	NEG		
Ciycol				NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	26		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	9		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	<u> </u>		
Tin	ppm	ASTM D5185m	>15	3		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		50		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		9		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m		739		
Calcium	ppm	ASTM D5185m		1418		
Phosphorus	ppm	ASTM D5185m		718		
Zinc	ppm	ASTM D5185m		802		
Sulfur	ppm	ASTM D5185m		2563		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	29		
Fuel	%	ASTM D3524	>5	0.2		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4		
Nitration	Abs/cm	*ASTM D7624	>20	9.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2		
		method	limit/baca	ourront	history	history
					history I	nistory2
Oxidation	Abs/.1mm	ASTM D7414	>25	17.0		
Base Number (BN)	mg KOH/g	ASTM D2896		7.1		



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

Certificate 12367

Contact/Location: BERT SMITH - LTIBEL

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