

OIL ANALYSIS REPORT

OKLAHOMA/102/TR - BACKHOE LOADER Machine Id 53.204L [OKLAHOMA^102^TR - BACKHOE LOADER]

Component Diesel Engine

MOBIL DELVAC SUPER 1400 15W40 (--- GAL)





VISCOSITY

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Fluic

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

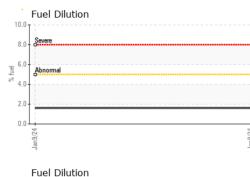
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

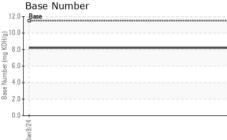
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Sample Number		Client Info		WC0886948		
Sample Date		Client Info		09 Jan 2024		
Machine Age	hrs	Client Info		917		
Oil Age	hrs	Client Info		250		
Oil Changed		Client Info		Changed		
Sample Status				ATTENTION		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	42		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	5		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	7		
Tin	ppm	ASTM D5185m	>15	, <1		
Vanadium	ppm	ASTM D5185m	- 10	0		
Cadmium	ppm	ASTM D5185m		0		
	ppin			-		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		33		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		34		
Manganese	ppm	ASTM D5185m		9		
Magnesium	ppm	ASTM D5185m		435		
Calcium	ppm	ASTM D5185m		1520		
Phosphorus	ppm	ASTM D5185m		863		
Zinc	ppm	ASTM D5185m		1029		
Sulfur	ppm	ASTM D5185m		2618		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	1		
Fuel	%	ASTM D3524	>5	1.6		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	7.0		
Sulfation	Abs/.1mm	*ASTM D7024	>30	21.1		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7		
Base Number (BN)	mg KOH/g	ASTM D2896	11.5	8.2		

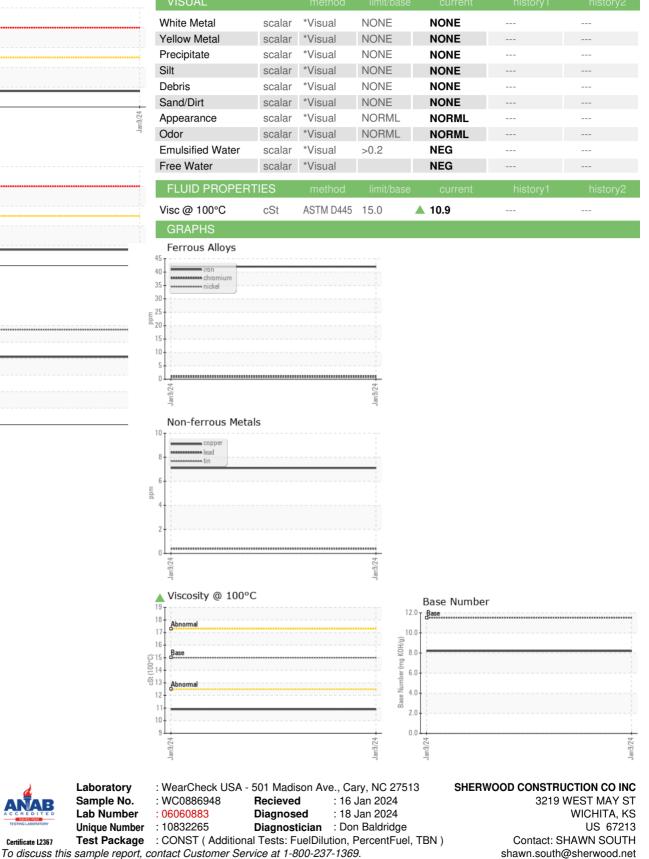


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* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Certificate L2367

T: x:

F: x: