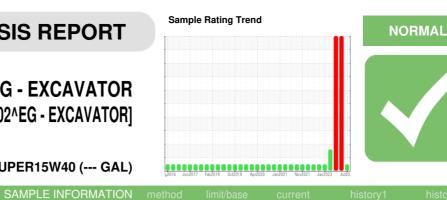


# **OIL ANALYSIS REPORT**

#### Area OKLAHOMA/102/EG - EXCAVATOR Machine Id 20.512L [OKLAHOMA^102^EG - EXCAVATOR] Component

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)



DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

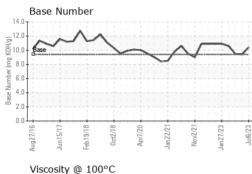
### Fluid Condition

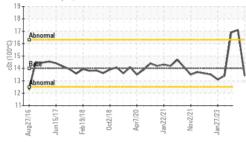
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Number		Client Info		WC0821806	WC0821796	WC0821800
Sample Date		Client Info		06 Jul 2023	30 Jun 2023	29 Jun 2023
Machine Age	hrs	Client Info		8124	7815	8124
Oil Age	hrs	Client Info		309	309	309
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	SEVERE	SEVERE
CONTAMINATIO	N	method	limit/base		history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	35	<b>•</b> 331	9392
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	2
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	12	<mark>▲</mark> 12	<b>4</b> 24
Lead	ppm	ASTM D5185m	>40	2	0	<1
Copper	ppm	ASTM D5185m	>330	2	<1	2
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	28	7	7
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	42	4	4
Manganese	ppm	ASTM D5185m		<1	2	3
Magnesium	ppm		0	550	<b>▲</b> 38	<b>4</b> 9
Calcium	ppm	ASTM D5185m		1838	<u> </u>	<mark>▲</mark> 3247
Phosphorus	ppm	ASTM D5185m		818	<b>1</b> 061	<b>▲</b> 1106
Zinc	ppm	ASTM D5185m		995	<u> </u>	<u> </u>
Sulfur	ppm	ASTM D5185m		3383	<mark>▲</mark> 9048	▲ 9898
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	<b>7</b> 6	• 110
Sodium	ppm	ASTM D5185m		2	0	4
Potassium	ppm	ASTM D5185m	>20	<1	6	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.8	4.5	4.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	16.6	16.4
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.7	4.6	3.0
Deee Number (DNI)	mg KOH/g	ASTM D2896	94	10.4	9.4	9.5
Base Number (BN)	ing iton y	TO THE BLOOD	0.1	10.4	0.4	0.0

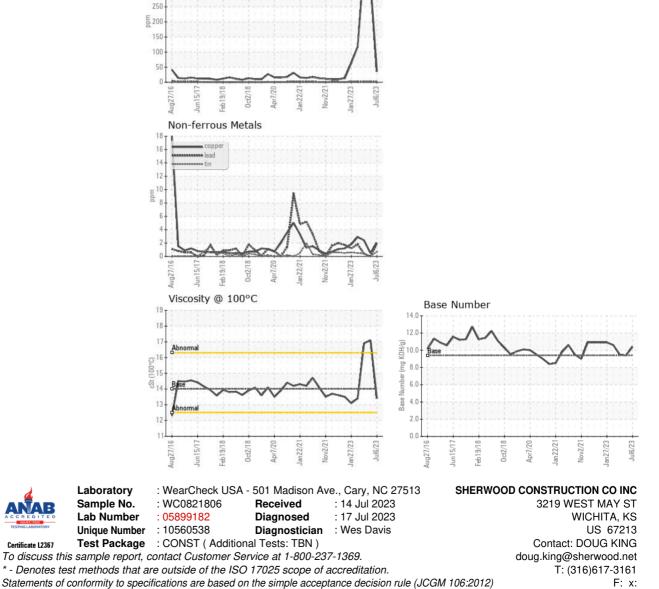


# **OIL ANALYSIS REPORT**





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 PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14	13.4	▲ 17.1	16.9
GRAPHS						
Ferrous Alloys						
iron		1111111111	A			
chromium	1011011		1			
0 - mickel			1.1.			





Submitted By: BOBBY JONES

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