

OIL ANALYSIS REPORT

OKLAHOMA/3/EG - EXCAVATOR 20.69L [OKLAHOMA^3^EG - EXCAVATOR]

Sample Rating Trend



Diesel Engine Fluic

Component

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

		and the second	line it //		In the American Street	Laboration of the second
SAMPLE INFOR	MATION	method	limit/base	current	history1	history
Sample Number		Client Info		WC0834092	WC0857248	WC077838
Sample Date		Client Info		09 Jan 2024	19 Oct 2023	24 Aug 202
Machine Age	hrs	Client Info		12561	12365	12115
Oil Age	hrs	Client Info		196	205	204
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	ON	method	limit/base	current	history1	history
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history
Iron	ppm	ASTM D5185m	>75	15	33	28
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>54	2	1	4
Lead	ppm	ASTM D5185m	>20	<1	<1	<1
Copper	ppm	ASTM D5185m	>240	<1	2	2
Tin	ppm	ASTM D5185m	>5	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history
Boron	ppm	ASTM D5185m	0	44	45	48
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	41	44	46
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	533	530	589
Calcium	ppm	ASTM D5185m		1731	1699	1941
Phosphorus	ppm	ASTM D5185m		816	730	848
Zinc	ppm	ASTM D5185m		950	933	1020
Sulfur	ppm	ASTM D5185m		2540	2414	3117
CONTAMINANT	S	method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185m	>35	4	6	5
Sodium	ppm	ASTM D5185m		2	5	5
Potassium	ppm	ASTM D5185m	>20	<1	0	0
INFRA-RED		method	limit/base	current	history1	history
Soot %	%	*ASTM D7844	>3	1.4	1.7	2.7
Nitration	Abs/cm	*ASTM D7624	>20	8.9	10.6	12.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.1	27.2	30.0
FLUID DEGRAD	ATION	method	limit/base	current	history1	history
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.7	24.4	25.7

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor

Wear

All component wear rates are normal.

Contamination

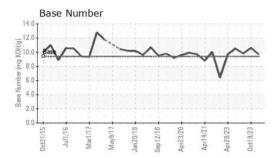
There is no indication of any contamination in the oil.

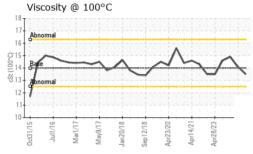
Fluid Condition

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



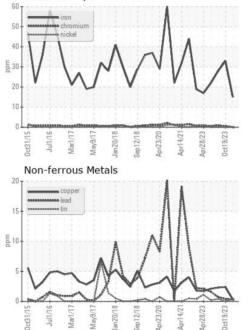
OIL ANALYSIS REPORT

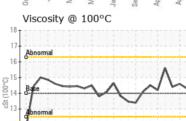


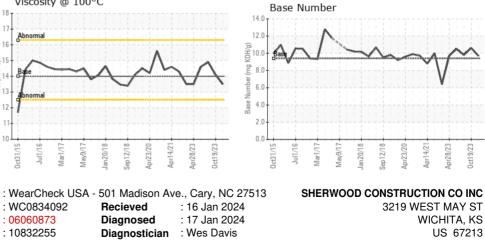


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	13.5	14.1	14.9
GRAPHS						









Test Package : CONST (Additional Tests: TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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)

Report Id: SHEWIC [WUSCAR] 06060873 (Generated: 01/17/2024 21:19:55) Rev: 1

Unique Number : 10832255

16

12

10

Laboratory

Sample No.

Lab Number

0ct31/15

Jul1/16

: WC0834092

: 06060873

Mar1/17

May9/17

an20/18 Sep 12/18

Recieved

Diagnosed

Apr23/20 Apr14/21 Apr28/23 0ct19/23

Diagnostician : Wes Davis

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