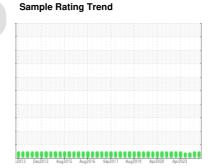


OIL ANALYSIS REPORT



OKLAHOMA/102/EG - MOTOR GRADER 78.67 [OKLAHOMA^102^EG - MOTOR GRADER]
Component
Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

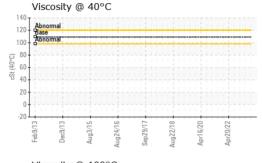
Fluid Condition

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	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0821769	WC0849020	WC0800856
Sample Date		Client Info		10 Nov 2023	12 Sep 2023	22 May 2023
Machine Age	hrs	Client Info		16125	15780	15571
Oil Age	hrs	Client Info		260	225	273
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINATIO	٧	method	limit/base	current	history1	history2
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	history2
					2	
Iron	ppm	ASTM D5185m	>100	5 0		5
Chromium	ppm	ASTM D5185m		-	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		1	0	3
Lead	ppm		>40	0	0	0
Copper	ppm	ASTM D5185m		<1	1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<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	65	67	70
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	44	39	42
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	0	513	535	526
Calcium	ppm	ASTM D5185m		1734	1724	1731
Phosphorus	ppm	ASTM D5185m		782	765	800
Zinc	ppm	ASTM D5185m		953	928	960
Sulfur	ppm	ASTM D5185m		2797	3103	3230
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	2	3
Sodium	ppm	ASTM D5185m		0	2	2
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.3	6.0	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	21.8	20.8
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.8	19.8	18.1
					13.0	10.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	9.8	10.2	10.0



OIL ANALYSIS REPORT



VISUAL		method				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	LIGHT	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

ASTM D445 14

12.7

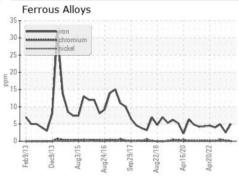
12.7

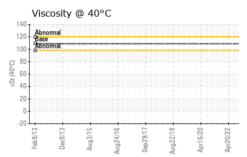
<u>12.3</u>

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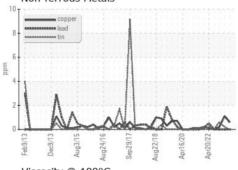


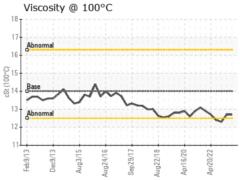
FLUID PROPERTIES

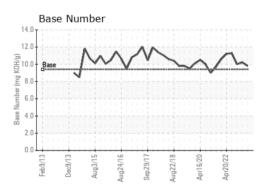
















Laboratory Sample No. Lab Number Unique Number

: WC0821769 : 06012047 : 10751191

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 20 Nov 2023 : 21 Nov 2023 Diagnostician : Don Baldridge

Test Package : CONST (Additional Tests: KV40, TBN) 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)

SHERWOOD CONSTRUCTION CO INC

3219 WEST MAY ST WICHITA, KS US 67213 Contact: DOUG KING

doug.king@sherwood.net T: (316)617-3161

F: x:

Report Id: SHEWIC [WUSCAR] 06012047 (Generated: 11/21/2023 17:23:25) Rev: 1

Submitted By: BOBBY JONES