CONST	WEAR CHECK
	OIL ANALYSIS REPORT

Area

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ATTENTION

OKLAHOMA/102/EG - MOTOR GRADER 78.64 [OKLAHOMA^102^EG - MOTOR GRADER] Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0864448	WC0864325	WC0726335
Resample at the next service interval to monitor.	Sample Date		Client Info		14 May 2024	31 Jan 2024	19 Aug 2022
	Machine Age	hrs	Client Info		94400	8934	8025
	Oil Age	hrs	Client Info		94400	8934	225
	Filter Age	hrs	Client Info		0	0	225
	Oil Changed		Client Info		N/A	N/A	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				ATTENTION	ATTENTION	ATTENTION
WEAR	Iron	ppm	ASTM D5185m		5	8	11
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	<1	0
	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		0	1	2
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		0	1	1
	Tin	ppm	ASTM D5185m	>4	0	0	<1
	Vanadium	ppm	ASTM D5185m	NONE	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	2	3	3
	Potassium	ppm	ASTM D5185m		0	2	0
There is no indication of any contamination in the oil.	Fuel	lele	WC Method		<1.0	<1.0	1.5
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	5.8	6.2	6.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	21.5	23.6
	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
	o "				•		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0	2	<1	0
The oil viscosity is lower than normal. The BN result indicates that	Boron	ppm	ASTM D5185m		75	61	71
there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	0	39	39	39
	Manganese	ppm	ASTM D5185m	0	0	0	<1
	Magnesium	ppm	ASTM D5185m	0	484	465	484
	Calcium	ppm	ASTM D5185m		1840	1577	1689
	Phosphorus	ppm	ASTM D5185m		817	790	716
	Zinc	ppm	ASTM D5185m		952	844	883
	Sulfur	ppm	ASTM D5185m	. 05	2942	2638	2313
	Oxidation	Abs/.1mm	*ASTM D7414		19.1	19.4	20.5
	Base Number (BN)	mg KUH/g	ASTM D2896	9.4	10.0	10.3	11.2

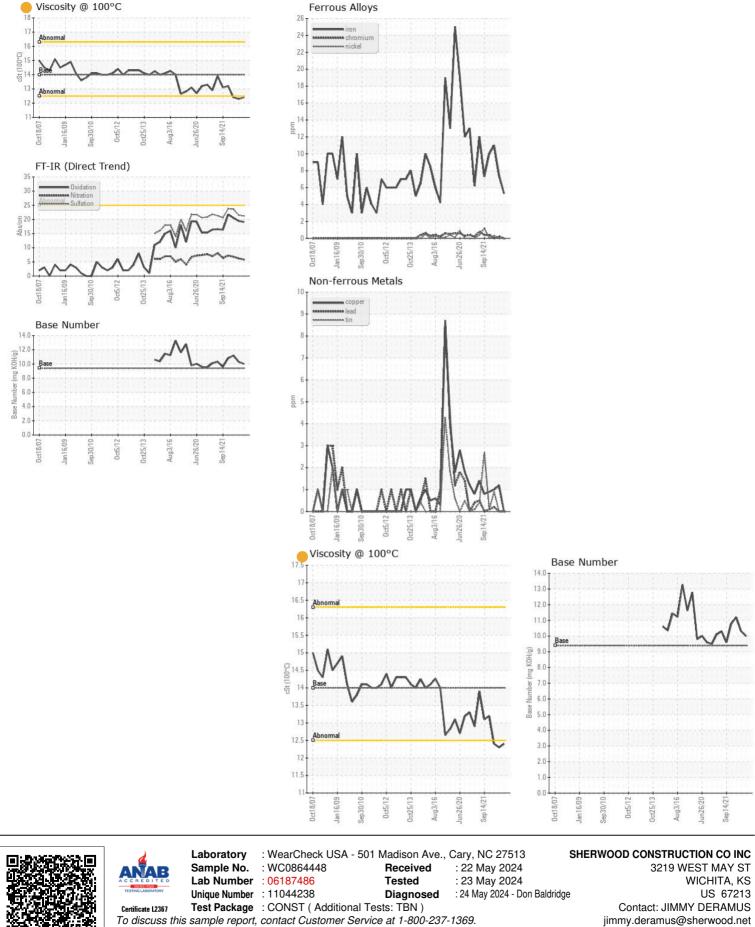
Visc @ 100°C cSt

ASTM D445 14

12.3

12.4

12.4



* - 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)

Submitted By: LOUIS BRESHEARS Page 2 of 2

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