

OKLAHOMA/102/EG - MOTOR GRADER 78.251 [OKLAHOMA^102^EG - MOTOR GRADER] Component Main Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0935178	WC0914431	WC0778298
	Sample Date		Client Info		30 Jun 2024	02 Apr 2024	12 Dec 2023
	Machine Age	hrs	Client Info		13775	13480	13202
	Oil Age	hrs	Client Info		13480	278	377
	Filter Age	hrs	Client Info		13480	278	377
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	7	9	7
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	2	2	3
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>330	<1	<1	1
	Tin	ppm	ASTM D5185m	>15	<1	1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	4	5
	Potassium	ppm	ASTM D5185m		2	2	1
There is no indication of any contamination in the oil.	Fuel	lele	WC Method		_ <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	6.7	7.1	6.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	22.7	22.0
	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
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.	Sodium	ppm	ASTM D5185m		<1	1	0
	Boron	ppm	ASTM D5185m	0	58	64	77
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		40	41	43
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m	0	495	493	518
	Calcium	ppm	ASTM D5185m		1711	1683	1733
	Phosphorus	ppm	ASTM D5185m		960	768	750
	Zinc	ppm	ASTM D5185m		978	917	936
	Sulfur	ppm	ASTM D5185m		2863	2589	2774
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.1	21.5	20.5
	Base Number (BN)		ASTM D2896		9.9	10.1	9.8
	\// O 10000	0		4.4	40.5	10.0	10.5

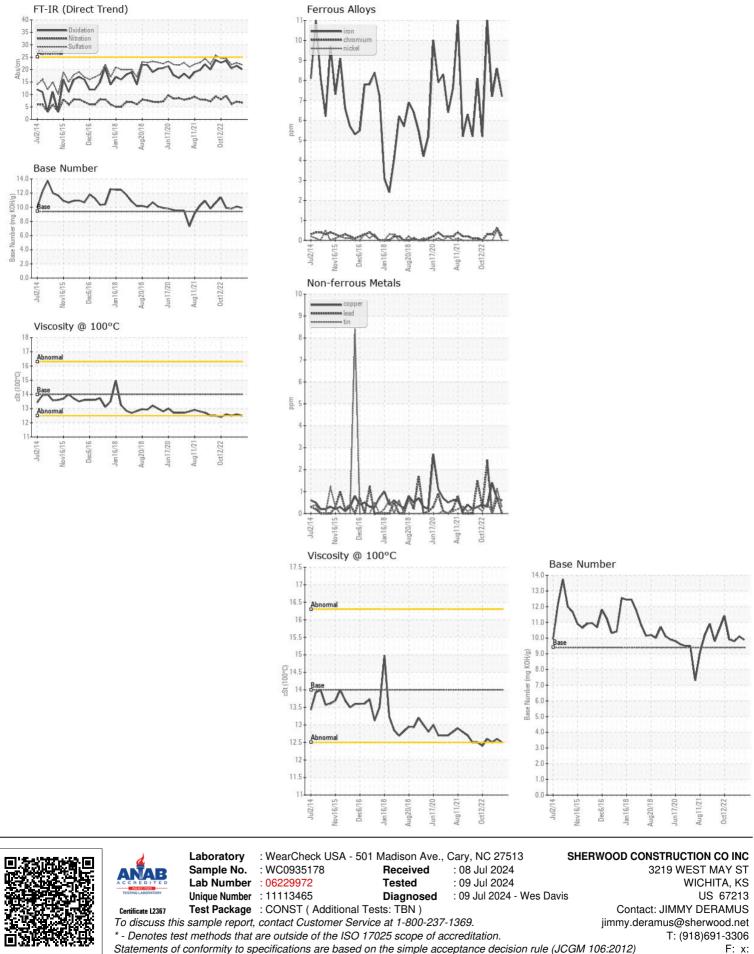
Visc @ 100°C cSt

ASTM D445 14

12.6

12.5

12.5



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