

OKLAHOMA/102 Machine Id 20.412L [OKLAHOMA^102] Component 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		WC0834045	WC0778415	WC0769725
	Sample Date		Client Info		15 Aug 2023	27 Jan 2023	02 Jan 2023
	Machine Age	hrs	Client Info		1060	542	413
	Oil Age	hrs	Client Info		518	542	413
	Filter Age	hrs	Client Info		518	542	413
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ATTENTION
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	20	9	40
	Chromium	ppm	ASTM D5185m	>20	1	<1	4
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	18	11	67
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m	>330	2	1	7
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u>\</u> 25	7	4	15
	Potassium	ppm	ASTM D5185m		0	0	2
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method	>5	<1.0	<1.0	0.8
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.7	5.6	6.9
	Sulfation	Abs/.1mm	*ASTM D7415		22.7	21.7	22.2
	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	Sodium		ASTM D5185m		2	2	2
	Boron	ppm ppm	ASTM D5185m	0	38	56	37
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium		ASTM D5185m		0	0	0
	Molybdenum	ppm ppm	ASTM D5185m		44	38	38
	Manganese	ppm	ASTM D5185m	0	-++ <1	<1	2
	Magnesium	ppm	ASTM D5185m	0	550	471	454
	Calcium	ppm	ASTM D5185m	0	1797	1607	1617
	Phosphorus	ppm	ASTM D5185m		731	707	840
	Zinc	ppm	ASTM D5185m		910	858	1042
	Sulfur	ppm	ASTM D5185m		2853	2883	3315
	Oxidation	Abs/.1mm	*ASTM D7414	>25	2030	19.8	20.8
	Base Number (BN)		ASTM D2896		9.5	10.5	9.3
		a C+		4.4	10.0	10.0	

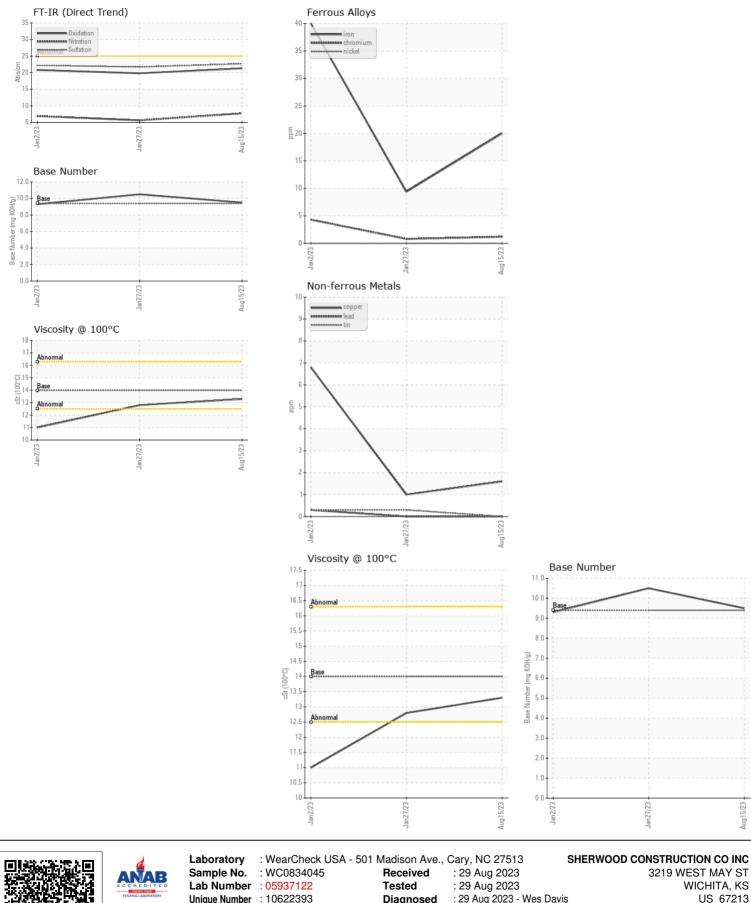
Visc @ 100°C cSt

ASTM D445 14

12.8

11.0

13.3



Unique Number : 10622393 Diagnosed : 29 Aug 2023 - Wes Davis Test Package : CONST (Additional Tests: TBN) Contact: SHAWN SOUTH Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. shawn.south@sherwood.net * - 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: BRENDAN JACKSON Page 2 of 2

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