



Machine Id 53.161L [KANSAS^44]

Component Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (4 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0901311	WC0862553	WC0630426
Oil and filter change at the time of sampling has been noted. Resample	Sample Date		Client Info		11 Mar 2024	15 Oct 2023	14 Jan 2022
at the next service interval to monitor.	Machine Age	hrs	Client Info		1350	1056	4
	Oil Age	hrs	Client Info		1350	1056	0
	Filter Age	hrs	Client Info		0	1056	0
	Oil Changed		Client Info		Changed	N/A	Not Changd
	Filter Changed		Client Info		Changed	N/A	Not Changd
	Sample Status				ATTENTION	ATTENTION	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	>100	8	16	6
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		3	2	<1
	Lead		ASTM D5185m		3 <1	0	0
	Copper	ppm	ASTM D5185m		3	2	7
	Tin	ppm	ASTM D5185m		-3 <1	0	<1
	Vanadium	ppm	ASTM D5185m	>15	0	0	0
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal		*Visual	NONE	NONE	NONE	NONE
		scalar	visual	NONE		NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	6	15
	Potassium	ppm	ASTM D5185m	>20	<1	1	<1
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>5	<1.0	<1.0	0.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.2	0
	Nitration	Abs/cm	*ASTM D7624	>20	6.4	9.8	5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	22.7	22.3
	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	nom	ASTM D5185m		5	5	
FLOID CONDITION	Sodium	ppm	ASTM D5185m ASTM D5185m	0	5		<1
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron Barium	ppm	ASTM D5185m		88	36 0	58 2
		ppm			0		
	Molybdenum	ppm	ASTM D5185m	0	53	41	32
	Manganese	ppm	ASTM D5185m	0	<1	<1	2
	Magnesium	ppm	ASTM D5185m	0	698 0210	517	386
	Calcium	ppm	ASTM D5185m		2312	1746	1668
	Phosphorus	ppm	ASTM D5185m		1098	848	783
	Zinc	ppm	ASTM D5185m		1281	949	867
	Sulfur	ppm	ASTM D5185m	05	3985	2346	2838
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.1	23.3	18.8

Base Number (BN) mg KOH/g ASTM D2896 9.4

ASTM D445 14

Visc @ 100°C cSt

9.1

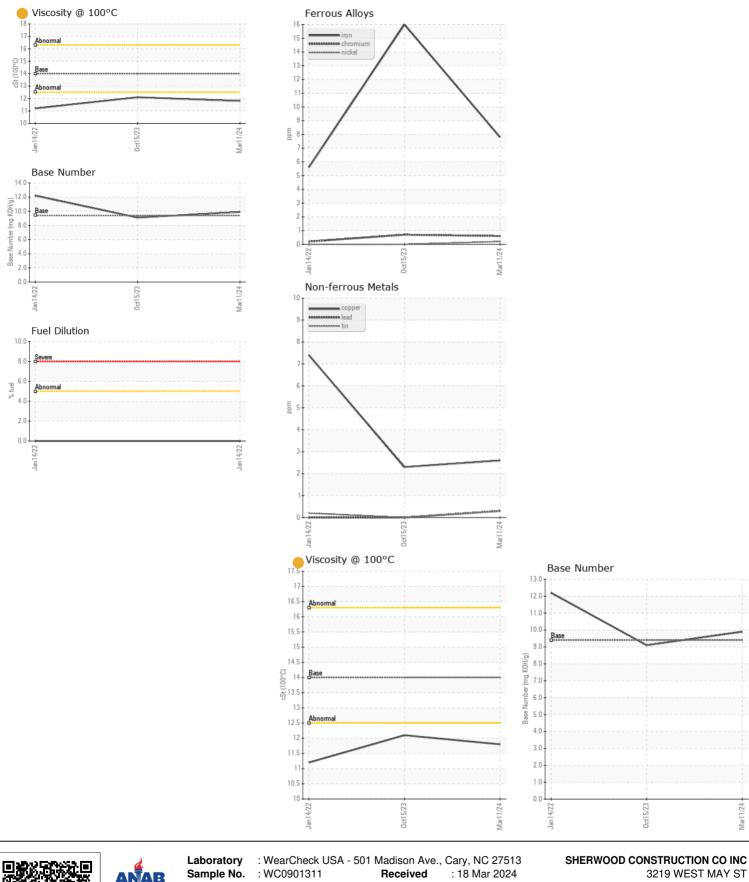
12.1

12.2

11.2

9.9

11.8



Lab Number : 06121423 Tested WICHITA, KS : 19 Mar 2024 Unique Number : 10930256 Diagnosed : 20 Mar 2024 - Don Baldridge US 67213 Test Package : CONST (Additional Tests: FuelDilution, TBN) Contact: RANDY ROBERTS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. randy.roberts@sherwood.net * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (316)943-6491 F: x: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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