

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

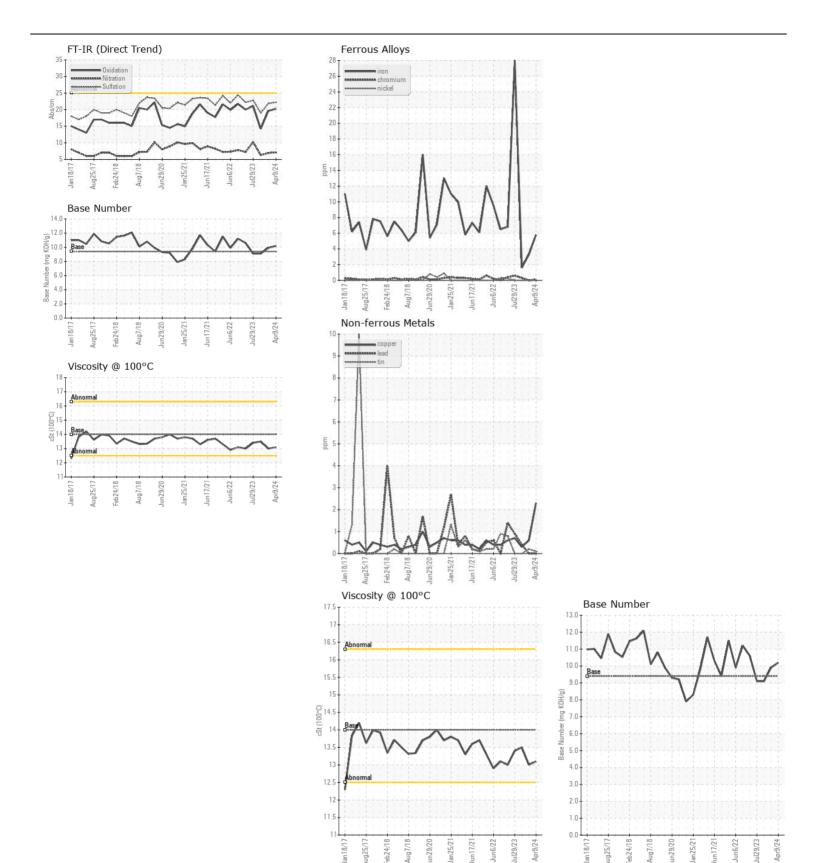
Area

OKLAHOMA/102/EG - MOTOR GRADER 78.255 [OKLAHOMA^102^EG - MOTOR GRADER]

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

MOBIL DELVAC 1300 SUPER15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
HEOOMMENDATION	Sample Number	OOM	Client Info	Littleyton	WC0864338	WC0864272	
Resample at the next service interval to monitor. (Customer Sample Comment: 10430 hrs)	Sample Date		Client Info		09 Apr 2024	06 Dec 2023	13 Sep 2023
	Machine Age	hrs	Client Info		10430	10215	9947
	Oil Age	hrs	Client Info		8950	8950	8950
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	1110	Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	6	3	2
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	<1	<1	2
	Lead	ppm	ASTM D5185m	>40	0	0	<1
	Copper	ppm	ASTM D5185m	>330	2	<1	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Ciliana		ACTM DE10E	05	4	0	4
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	3	4
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m		0	<1	<1.0
			WC Method		<1.0	<1.0	
	Water		WC Method WC Method	>0.2	NEG	NEG	NEG
	Glycol Soot %	%	*ASTM D7844	. 0	NEG	NEG 0.4	NEG
	Nitration		*ASTM D7644		0.4 7.1	0.4 6.9	0.2 6.3
	Sulfation	Abs/.1mm	*ASTM D7624		22.2	21.8	19.0
	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		*Visual	>0.2	NEG	NEG	NEG
			VIOUGI			IVEG	IVEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	<1	2
	Boron	ppm	ASTM D5185m	0	65	58	84
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	0	2	0	0
	Molybdenum	ppm	ASTM D5185m	0	40	37	18
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m	0	509	521	615
	Calcium	ppm	ASTM D5185m		1706	1594	1465
	Phosphorus	ppm	ASTM D5185m		786	725	743
	Zinc	ppm	ASTM D5185m		917	913	888
	Sulfur	ppm	ASTM D5185m		2891	2455	3267
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	19.6	14.2
	Base Number (BN)	mg KOH/g	ASTM D2896	9.4	10.2	9.9	9.1
	Visc @ 100°C	cSt	ASTM D445	14	13.1	13.0	13.5







Certificate L2367

Laboratory Sample No. Unique Number: 10991057

Lab Number : 06155634

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0864338

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received **Tested**

Diagnosed Test Package : CONST (Additional Tests: TBN)

: 23 Apr 2024 : 24 Apr 2024 - Don Baldridge

: 22 Apr 2024

3219 WEST MAY ST

WICHITA, KS US 67213 Contact: DOUG KING doug.king@sherwood.net

T: (316)617-3161

* - 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

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