

WEAR
CONTAMINATION
FLUID CONDITION

NORMAL

MARGINAL

ABNORMAL



OKLAHOMA/3/EG - LOADER
Machine Id
50.25L [OKLAHOMA^3^EG - LOADER]

Component Diesel Engine

Diesei Eng MORII 15V	ine V40 (GAL)							
RECOMMENDATION		Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has	s been noted. Resample at	Sample Number Sample Date		Client Info		WC0886944 31 Jan 2024	WC0726146 10 Dec 2022	WC0746328 27 Oct 2022
the next service interval to monitor.		Machine Age	hrs	Client Info		22322	21603	21310
		Oil Age	hrs	Client Info		21603	21310	744
		Filter Age	hrs	Client Info		21603	21310	744
		Oil Changed	1110	Client Info		Changed	Changed	Changed
		Filter Changed		Client Info		Changed	Changed	Changed
		Sample Status				ABNORMAL	MARGINAL	_
WEAR		Iron	ppm	ASTM D5185m		26	23	53
All component wear rates are normal.		Chromium	ppm	ASTM D5185m	>20	<1	<1	1
All component wear rates are normal.		Nickel	ppm	ASTM D5185m		0	<u> </u>	<1
		Titanium	ppm	ASTM D5185m		0	<1	0
		Silver	ppm	ASTM D5185m		0	0	0
		Aluminum	ppm	ASTM D5185m		1	1	<1
		Lead	ppm	ASTM D5185m		<1	1	2
		Copper	ppm	ASTM D5185m		11	2	9
		Tin	ppm	ASTM D5185m	>15	2	<1	<1
		Vanadium White Metal	ppm	*Visual	NONE	0 NONE	0 NONE	0 NONE
		Yellow Metal	scalar		NONE	NONE NONE	NONE	
			scalar	*Visual	NONE	INOINE	INOINE	NONE
CONTAMINATION		Silicon	ppm	ASTM D5185m	>25	12	4	6
		Potassium	ppm	ASTM D5185m	>20	1	0	0
Light fuel dilution occurring.		Fuel	%	ASTM D3524	>5	2.2	<1.0	<1.0
		Water		WC Method	>0.2	NEG	NEG	NEG
		Glycol		WC Method		NEG	NEG	NEG
		Soot %	%	*ASTM D7844	>3	0.3	0.8	1.6
		Nitration	Abs/cm	*ASTM D7624	>20	6.7	7.3	8.8
		Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	24.7	26.5
		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	ppm	ASTM D5185m	>118	6	3	0
		Boron	ppm	ASTM D5185m		48	49	36
The BN result indicates that there is suitated oil. Fuel is present in the oil and is lowering of the oil is suitable for further service.		Barium	ppm	ASTM D5185m		0	0	0
		Molybdenum	ppm	ASTM D5185m		36	41	39
		Manganese	ppm	ASTM D5185m		1	<1	<1
		Magnesium	ppm	ASTM D5185m		449	481	477
		Calcium	ppm	ASTM D5185m		1579	1621	1727
		Phosphorus	ppm	ASTM D5185m		866	738	700
		Zinc	ppm	ASTM D5185m		1020	865	874
		Sulfur	ppm	ASTM D5185m		2643	2497	2661
		Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	21.3	21.7
		Base Number (BN)	mg KOH/g	ASTM D2896		10.1	10.0	10.0

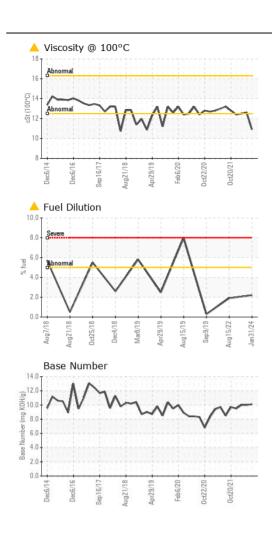
Visc @ 100°C cSt

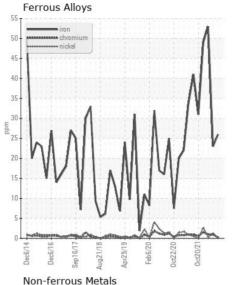
ASTM D445

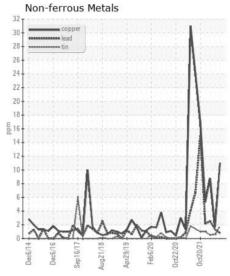
12.6

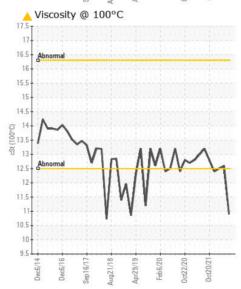
10.9

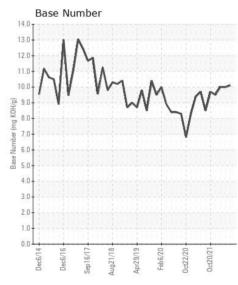
12.5















Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0886944 Lab Number : 06098112

Unique Number : 10896342

Received **Tested** Diagnosed

Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

: 27 Feb 2024 : 27 Feb 2024 - Wes Davis

: 23 Feb 2024

3219 WEST MAY ST

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

T: (316)617-3161

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