

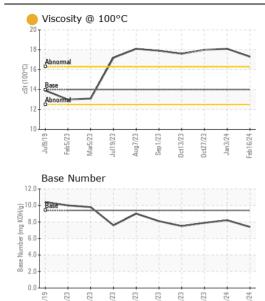
WEAR CONTAMINATION FLUID CONDITION

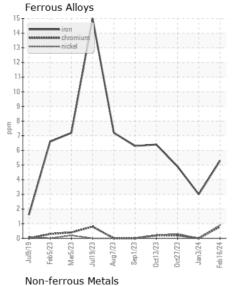
NORMAL NORMAL ATTENTION

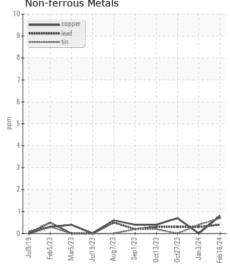
OKLAHOMA/102/TR - TANKS

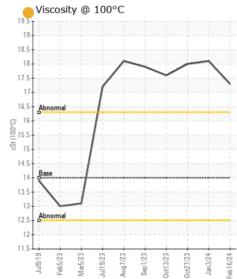
05.78 TANKS [OKLAHOMA^102^TR - TANKS]

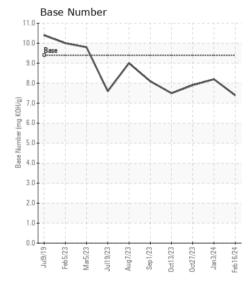
Diesel Engine MOBIL DELVAC 1300 SUPER15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0821740	WC0873920	WC0857251
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		16 Feb 2024	03 Jan 2024	27 Oct 2023
	Machine Age	hrs	Client Info		16200	16000	15600
	Oil Age	hrs	Client Info		200	200	200
	Filter Age	hrs	Client Info		200	200	200
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	ATTENTION	ATTENTION
WEAR							
WEAR	Iron	ppm	ASTM D5185m		5	3	5
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	0	<1
	Nickel	ppm	ASTM D5185m	>4	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	2	2
	Lead	ppm	ASTM D5185m		<1	<1	<1
	Copper	ppm	ASTM D5185m		<1	0	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	0	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	4
CONTAININATION	Potassium	ppm	ASTM D5185m		2	2	3
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 U.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.0	7.1
	Sulfation	Abs/.1mm	*ASTM D7415		21.8	20.6	20.4
	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		23	20	13
The oil viscosity is higher than normal. The BN result indicates that	Boron	ppm	ASTM D5185m		22	24	30
there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		1	0	5
	Molybdenum	ppm	ASTM D5185m	0	33	33	27
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m	0	340	407	397
	Calcium	ppm	ASTM D5185m		1128	1255	1206
	Phosphorus	ppm	ASTM D5185m		523	628	619
	Zinc	ppm	ASTM D5185m		653	749	670
	Sulfur	ppm	ASTM D5185m		1953	2075	2564
	Oxidation	Abs/.1mm	*ASTM D7414		21.8	18.4	17.9
	Base Number (BN)				7.4	8.2	7.9
	Visc @ 100°C	cSt	ASTM D445	14	17.3	18.1	18.0













Laboratory Sample No.

Lab Number : 06102723

: WC0821740

Unique Number : 10900953

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Feb 2024 **Tested** : 29 Feb 2024

: 29 Feb 2024 - Don Baldridge Diagnosed Test Package : CONST (Additional Tests: TBN)

3219 WEST MAY ST

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)

Report Id: SHEWIC [WUSCAR] 06102723 (Generated: 03/07/2024 12:04:07) Rev: 1

Submitted By: BOBBY JONES

SHERWOOD CONSTRUCTION CO INC

F: x:

WICHITA, KS