

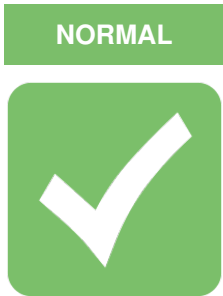
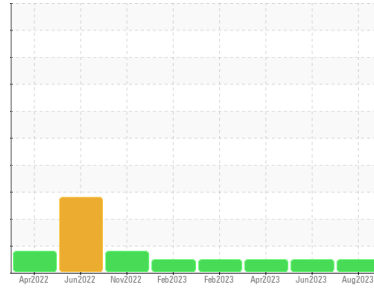


OIL ANALYSIS REPORT



Area
OKLAHOMA/3
Machine Id
48.88L [OKLAHOMA^3]
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (10 GAL)

Sample Rating Trend



DIAGNOSIS

- Recommendation**
Resample at the next service interval to monitor.
- Wear**
All component wear rates are normal.
- Contamination**
There is no indication of any contamination in the oil.
- Fluid Condition**
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	WC0834057	WC0808112	WC0808008	
Sample Date	Client Info	05 Aug 2023	05 Jun 2023	28 Apr 2023	
Machine Age	hrs	Client Info	6876	6563	6223
Oil Age	hrs	Client Info	6563	6223	5899
Oil Changed	Client Info	Changed	Changed	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >75	17	6	13
Chromium	ppm ASTM D5185m >4	<1	<1	<1
Nickel	ppm ASTM D5185m >5	0	0	<1
Titanium	ppm ASTM D5185m >2	<1	0	<1
Silver	ppm ASTM D5185m >2	<1	0	0
Aluminum	ppm ASTM D5185m >54	2	1	0
Lead	ppm ASTM D5185m >20	<1	<1	1
Copper	ppm ASTM D5185m >240	4	2	9
Tin	ppm ASTM D5185m >5	<1	0	1
Vanadium	ppm ASTM D5185m	0	0	<1
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	44	42	32
Barium	ppm ASTM D5185m 0	2	0	0
Molybdenum	ppm ASTM D5185m 0	66	40	42
Manganese	ppm ASTM D5185m	<1	<1	<1
Magnesium	ppm ASTM D5185m 0	723	522	517
Calcium	ppm ASTM D5185m	2537	1722	1660
Phosphorus	ppm ASTM D5185m	1129	775	764
Zinc	ppm ASTM D5185m	1332	929	925
Sulfur	ppm ASTM D5185m	4101	3077	3096

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >35	7	4	5
Sodium	ppm ASTM D5185m	0	2	4
Potassium	ppm ASTM D5185m >20	2	0	2

INFRA-RED

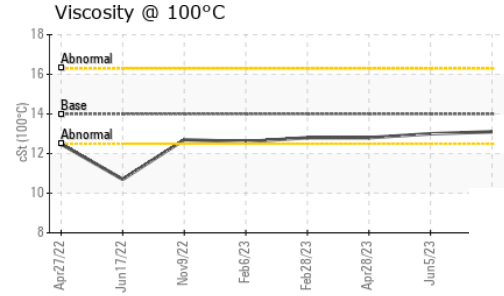
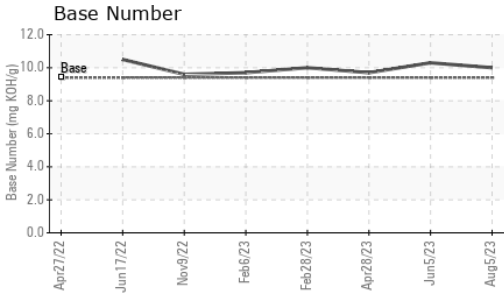
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.5	0.2	0.3
Nitration	Abs/cm *ASTM D7624 >20	7.6	7.7	8.0
Sulfation	Abs/.1mm *ASTM D7415 >30	22.5	21.6	22.5

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	20.4	19.2	21.0
Base Number (BN)	mg KOH/g ASTM D2896 9.4	10.0	10.3	9.7



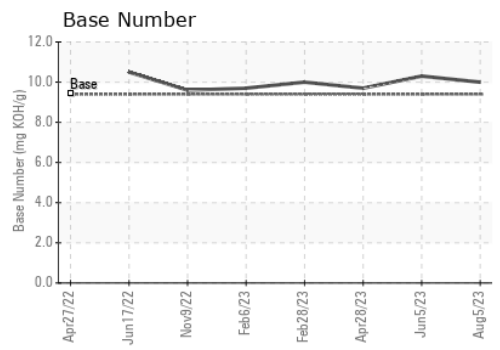
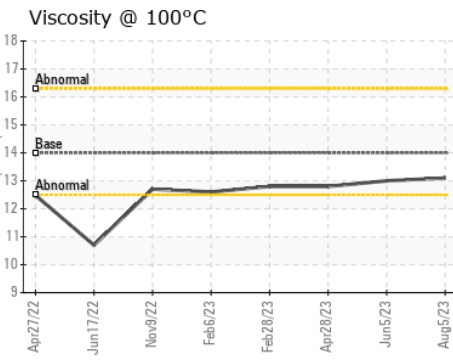
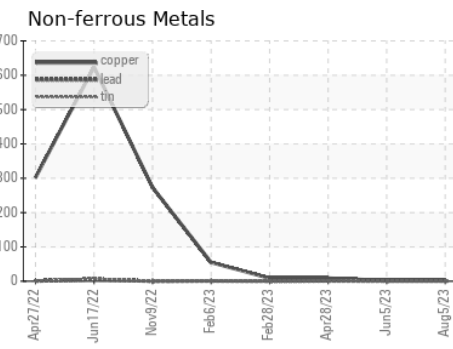
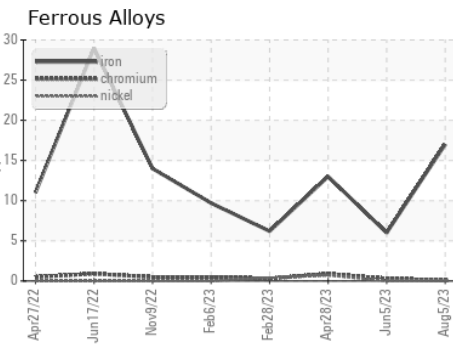
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445 14	13.1	13.0	12.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0834057 **Received** : 14 Aug 2023
Lab Number : **05923173** **Diagnosed** : 15 Aug 2023
Unique Number : 10603120 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: TBN)

SHERWOOD CONSTRUCTION CO INC
 3219 WEST MAY ST
 WICHITA, KS
 US 67213
 Contact: SHAWN SOUTH
 shawn.south@sherwood.net

Certificate L2367
 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)

T: x:
F: x: