CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
45.64L []
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

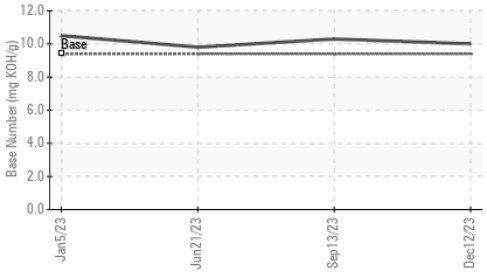
There is no indication of any contamination in the oil.

FLUID CONDITION

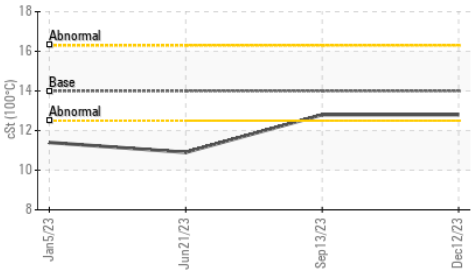
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0778301**	WC0849002	WC0807988
Sample Date		Client Info		**12 Dec 2023**	13 Sep 2023	21 Jun 2023
Machine Age	hrs	Client Info		**837**	550	366
Oil Age	hrs	Client Info		**287**	550	366
Filter Age	hrs	Client Info		**287**	550	366
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>100	**9**	10	22
Chromium	ppm	ASTM D5185m	>20	**<1**	0	<1
Nickel	ppm	ASTM D5185m	>2	**0**	0	0
Titanium	ppm	ASTM D5185m	>2	**<1**	0	<1
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**3**	1	4
Lead	ppm	ASTM D5185m	>40	**0**	0	0
Copper	ppm	ASTM D5185m	>330	**1**	3	10
Tin	ppm	ASTM D5185m	>15	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	**4**	4	5
Potassium	ppm	ASTM D5185m	>20	**1**	15	<1
Fuel		WC Method	>5	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	*ASTM D7844	>3	**0.2**	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	**6.4**	5.8	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	**21.7**	21.8	22.4
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
Sodium	ppm	ASTM D5185m		**0**	5	3
Boron	ppm	ASTM D5185m	0	**58**	62	56
Barium	ppm	ASTM D5185m	0	**0**	12	1
Molybdenum	ppm	ASTM D5185m	0	**41**	41	36
Manganese	ppm	ASTM D5185m		**<1**	<1	3
Magnesium	ppm	ASTM D5185m	0	**503**	505	448
Calcium	ppm	ASTM D5185m		**1648**	1711	1561
Phosphorus	ppm	ASTM D5185m		**733**	772	845
Zinc	ppm	ASTM D5185m		**904**	917	1020
Sulfur	ppm	ASTM D5185m		**2746**	2841	3176
Oxidation	Abs/.1mm	*ASTM D7414	>25	**20.4**	19.9	20.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	**10.0**	10.3	9.8
Visc @ 100°C	cSt	ASTM D445	14	**12.8**	12.8	▲ 10.9

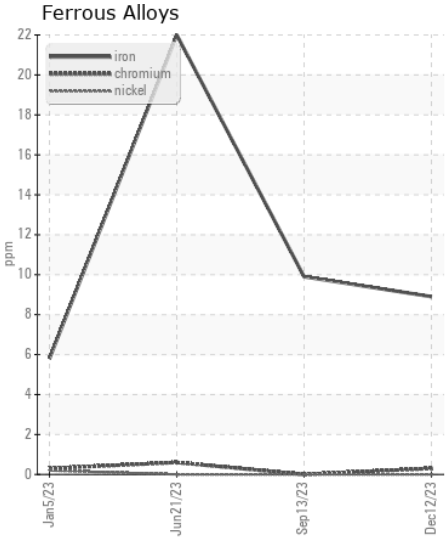
Base Number



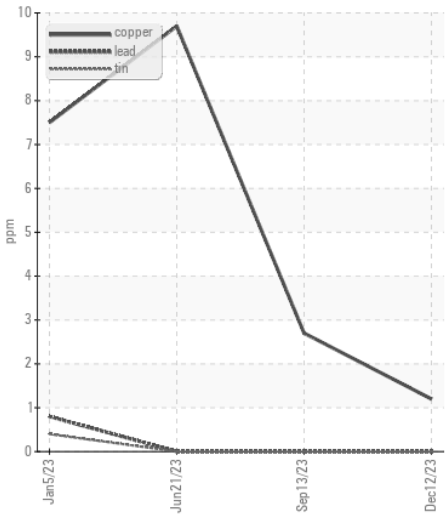
Viscosity @ 100°C



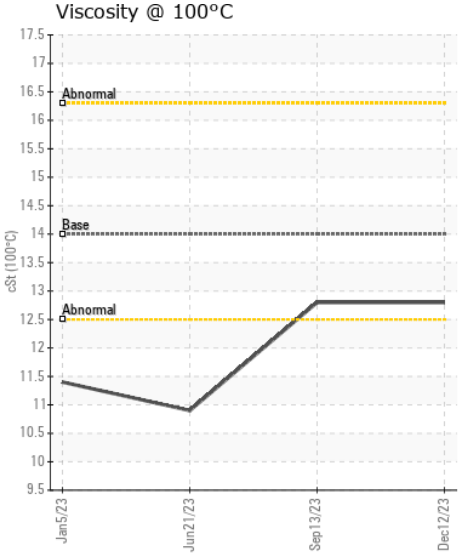
Ferrous Alloys



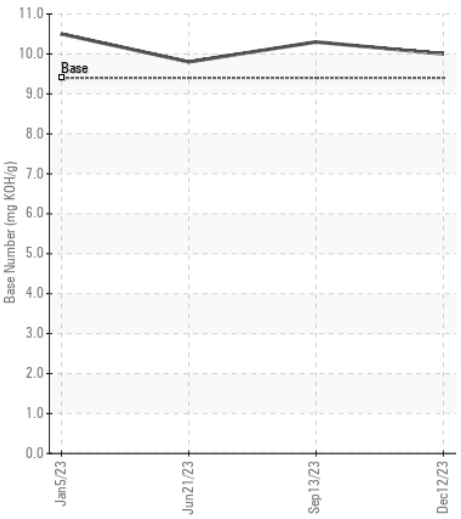
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0778301
Lab Number : 06043009
Unique Number : 10803617
Test Package : CONST (Additional Tests: TBN)

Received : 22 Dec 2023
Tested : 25 Dec 2023
Diagnosed : 25 Dec 2023 - Wes Davis

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
3219 WEST MAY ST
WICHITA, KS
US 67213
Contact: SHAWN SOUTH
shawn.south@sherwood.net
T: x:
F: x: