LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 8 - Pikeville [148906]
Machine Id
KLEEMANN MC100Ri K011.0035
Component
Diesel Engine
Fluid
WIRTGEN GROUP LOW SAPS 10W30 (5 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

The aluminum level is abnormal. All other component wear rates are normal.

CONTAMINATION

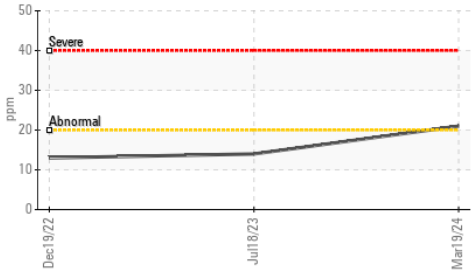
There is no indication of any contamination in the oil.

FLUID CONDITION

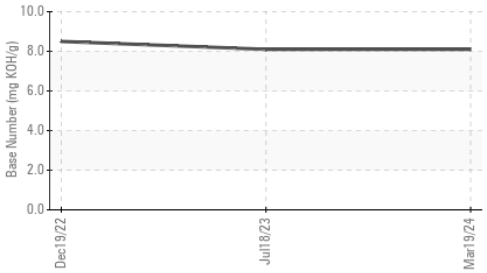
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0044172	LEC0042254	LEC0037794
Sample Date		Client Info		19 Mar 2024	18 Jul 2023	19 Dec 2022
Machine Age	hrs	Client Info		1896	1401	756
Oil Age	hrs	Client Info		495	645	756
Filter Age	hrs	Client Info		0	645	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	23	27	34
Chromium	ppm	ASTM D5185m	>20	1	2	2
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	▲ 21	14	13
Lead	ppm	ASTM D5185m	>40	<1	0	3
Copper	ppm	ASTM D5185m	>330	22	22	32
Tin	ppm	ASTM D5185m	>15	1	<1	4
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>!20	11	11	17
Potassium	ppm	ASTM D5185m	>20	3	<1	2
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	0.3	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.8	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	22.2	19.4
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	2	3
Boron	ppm	ASTM D5185m		205	209	118
Barium	ppm	ASTM D5185m		3	<1	0
Molybdenum	ppm	ASTM D5185m		264	234	72
Manganese	ppm	ASTM D5185m		1	2	5
Magnesium	ppm	ASTM D5185m		783	878	610
Calcium	ppm	ASTM D5185m		1479	1611	1593
Phosphorus	ppm	ASTM D5185m		860	924	1103
Zinc	ppm	ASTM D5185m		1080	1178	1321
Sulfur	ppm	ASTM D5185m		3338	4078	5203
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	17.5	14.4
Base Number (BN)	mg KOH/g	ASTM D2896		8.1	8.1	8.5
Visc @ 100°C	cSt	ASTM D445		13.9	13.7	12.7

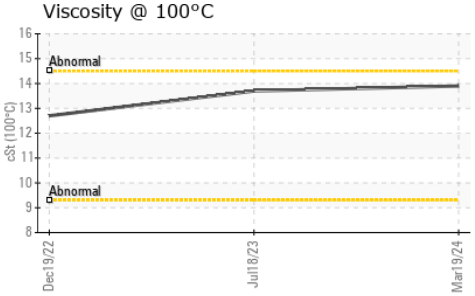
Aluminum (ppm)



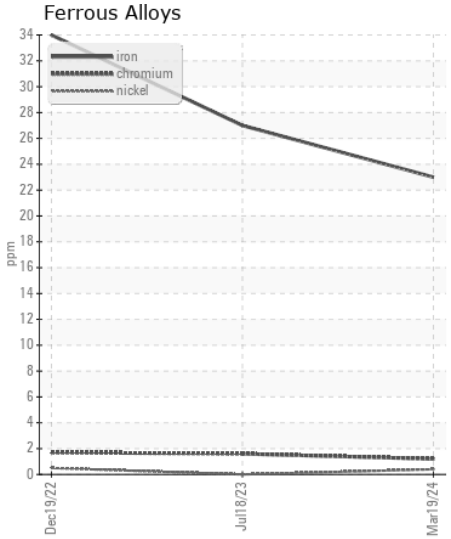
Base Number



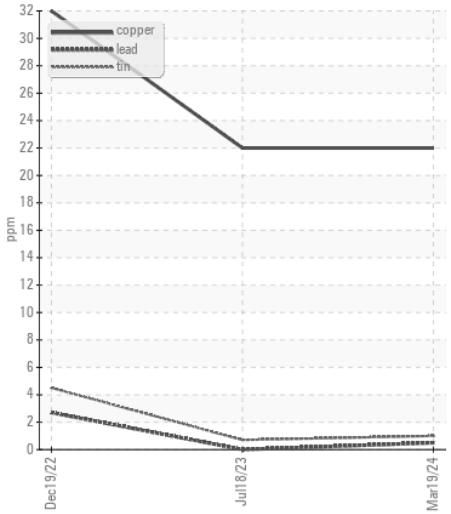
Viscosity @ 100°C



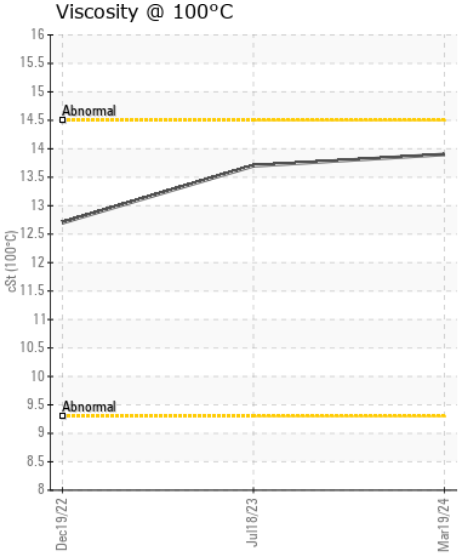
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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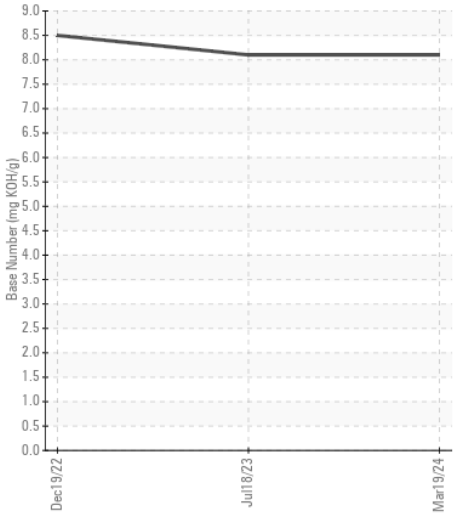

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0044172 **Received** : 21 Mar 2024
Lab Number : 06124767 **Tested** : 22 Mar 2024
Unique Number : 10938918 **Diagnosed** : 24 Mar 2024 - Don Baldridge
Test Package : CONST (Additional Tests: TBN)

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)

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