MOB I WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
663
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (16 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

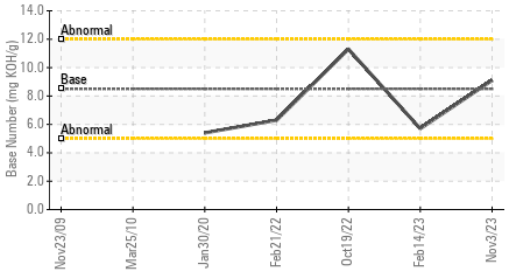
No evidence of coolant present in the oil. There is no indication of any contamination in the oil.

FLUID CONDITION

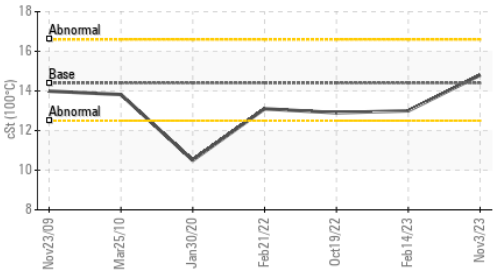
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0870852**	WC0761223	WC0743149
Sample Date		Client Info		**03 Nov 2023**	14 Feb 2023	19 Oct 2022
Machine Age	mls	Client Info		**288768**	278958	274313
Oil Age	mls	Client Info		**0**	0	0
Filter Age	mls	Client Info		**0**	0	0
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Filter Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**NORMAL**	SEVERE	MARGINAL
Iron	ppm	ASTM D5185m	>100	**30**	30	14
Chromium	ppm	ASTM D5185m	>20	**1**	1	<1
Nickel	ppm	ASTM D5185m	>4	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**2**	5	5
Lead	ppm	ASTM D5185m	>40	**<1**	<1	0
Copper	ppm	ASTM D5185m	>330	**23**	2	7
Tin	ppm	ASTM D5185m	>15	**0**	<1	<1
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	>25	**15**	5	4
Potassium	ppm	ASTM D5185m	>20	**2**	▲ 247	8
Fuel		WC Method	>5	**<1.0**	<1.0	▲ 4.9
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol	%	*ASTM D2982		**NEG**	⬢ 0.10	NEG
Soot %	%	*ASTM D7844	>3	**0.6**	0.5	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**7.5**	11.0	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	**19.5**	22.7	21.2
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	>158	**7**	▲ 299	0
Boron	ppm	ASTM D5185m	250	**8**	22	35
Barium	ppm	ASTM D5185m	10	**4**	0	0
Molybdenum	ppm	ASTM D5185m	100	**61**	82	73
Manganese	ppm	ASTM D5185m		**3**	1	<1
Magnesium	ppm	ASTM D5185m	450	**774**	38	95
Calcium	ppm	ASTM D5185m	3000	**1273**	1835	1955
Phosphorus	ppm	ASTM D5185m	1150	**1000**	859	910
Zinc	ppm	ASTM D5185m	1350	**1200**	1070	1088
Sulfur	ppm	ASTM D5185m	4250	**3039**	3329	4066
Oxidation	Abs/.1mm	*ASTM D7414	>25	**14.4**	18.4	15.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	**9.1**	5.7	11.3
Visc @ 100°C	cSt	ASTM D445	14.4	**14.8**	13.0	12.9

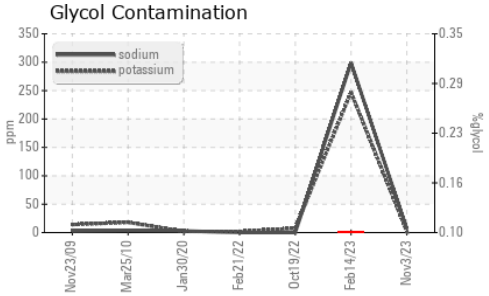
Base Number



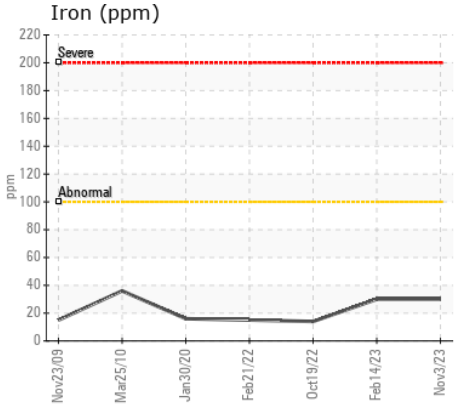
Viscosity @ 100°C



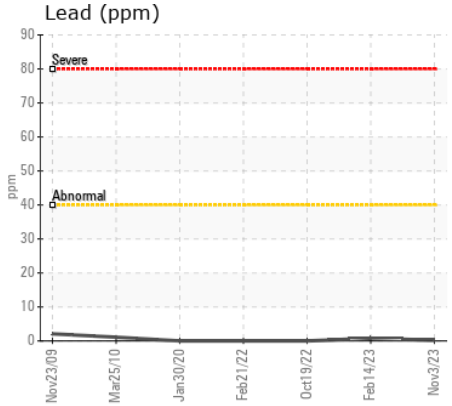
Glycol Contamination



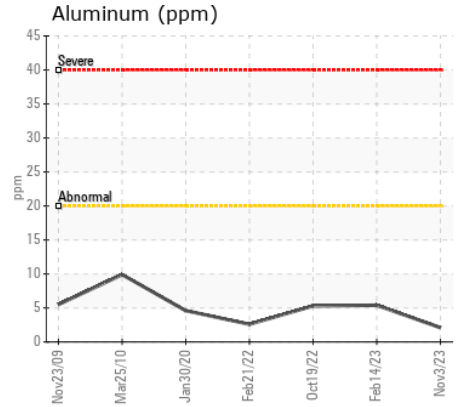
Iron (ppm)



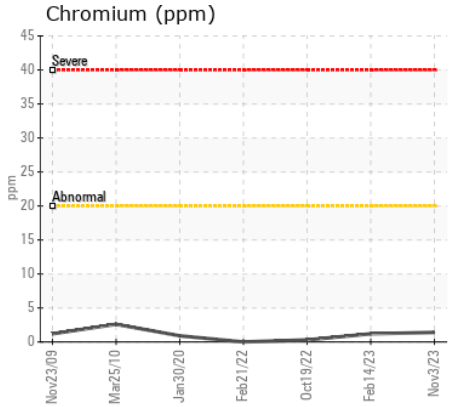
Lead (ppm)



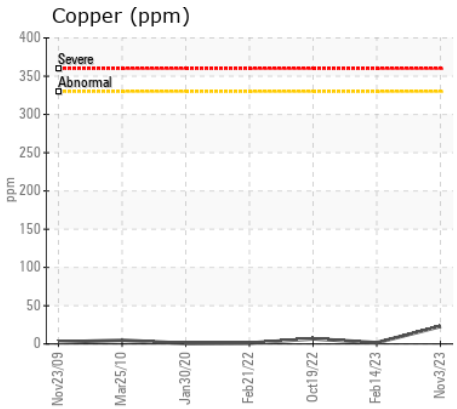
Aluminum (ppm)



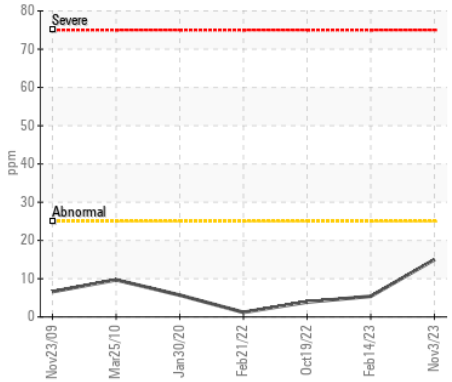
Chromium (ppm)



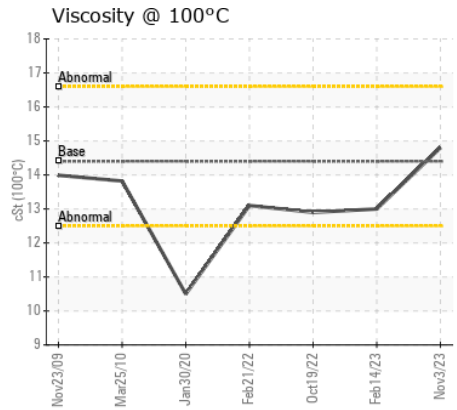
Copper (ppm)



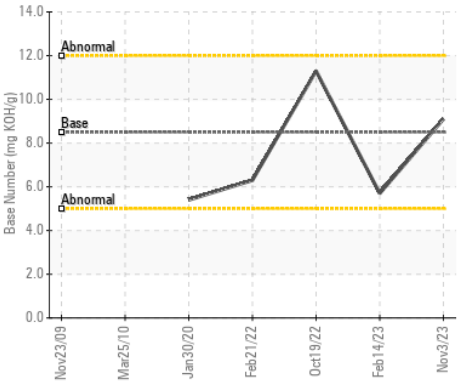
Silicon (ppm)



Viscosity @ 100°C



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0870852 **Recieved** : 16 Jan 2024
Lab Number : 06061737 **Diagnosed** : 18 Jan 2024
Unique Number : 10833119 **Diagnostician** : Jonathan Hester
Test Package : MOB 1 (Additional Tests: TBN)

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)

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