MOB I WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
1810
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

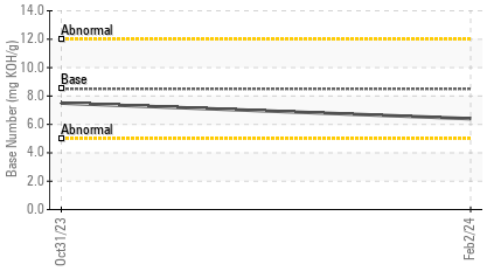
Sodium and/or potassium levels are high.

FLUID CONDITION

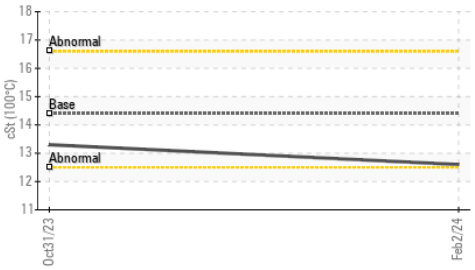
The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0870856**	WC0870766	---
Sample Date		Client Info		**02 Feb 2024**	31 Oct 2023	---
Machine Age	mls	Client Info		**24511**	19186	---
Oil Age	mls	Client Info		**0**	0	---
Filter Age	mls	Client Info		**0**	0	---
Oil Changed		Client Info		**Not Changd**	Not Changd	---
Filter Changed		Client Info		**Not Changd**	Not Changd	---
Sample Status				**ABNORMAL**	NORMAL	---
Iron	ppm	ASTM D5185m	>100	**49**	23	---
Chromium	ppm	ASTM D5185m	>20	**2**	<1	---
Nickel	ppm	ASTM D5185m	>4	**<1**	0	---
Titanium	ppm	ASTM D5185m		**0**	<1	---
Silver	ppm	ASTM D5185m	>3	**0**	0	---
Aluminum	ppm	ASTM D5185m	>20	**44**	23	---
Lead	ppm	ASTM D5185m	>40	**0**	0	---
Copper	ppm	ASTM D5185m	>330	**3**	3	---
Tin	ppm	ASTM D5185m	>15	**<1**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Silicon	ppm	ASTM D5185m	>25	**10**	8	---
Potassium	ppm	ASTM D5185m	>20	▲ **115**	57	---
Fuel		WC Method	>5	**<1.0**	<1.0	---
Water		WC Method	>0.2	**NEG**	NEG	---
Glycol	%	*ASTM D2982		**NEG**	NEG	---
Soot %	%	*ASTM D7844	>3	**0.6**	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	**10.0**	8.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**19.5**	18.2	---
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	---
Sodium	ppm	ASTM D5185m	>158	**15**	1	---
Boron	ppm	ASTM D5185m	250	**26**	44	---
Barium	ppm	ASTM D5185m	10	**0**	6	---
Molybdenum	ppm	ASTM D5185m	100	**82**	81	---
Manganese	ppm	ASTM D5185m		**1**	<1	---
Magnesium	ppm	ASTM D5185m	450	**219**	213	---
Calcium	ppm	ASTM D5185m	3000	**1903**	1953	---
Phosphorus	ppm	ASTM D5185m	1150	**996**	1009	---
Zinc	ppm	ASTM D5185m	1350	**1216**	1163	---
Sulfur	ppm	ASTM D5185m	4250	**3724**	3586	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	**15.6**	14.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	**6.4**	7.5	---
Visc @ 100°C	cSt	ASTM D445	14.4	**12.6**	13.3	---

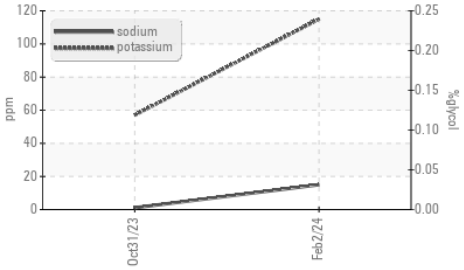
Base Number



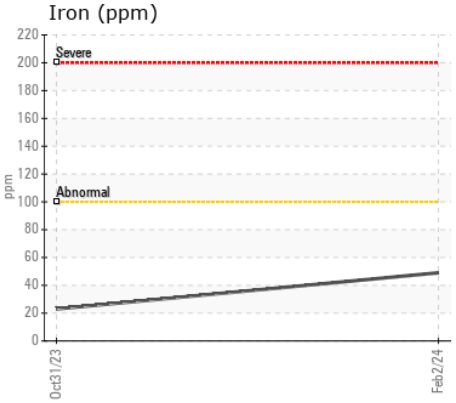
Viscosity @ 100°C



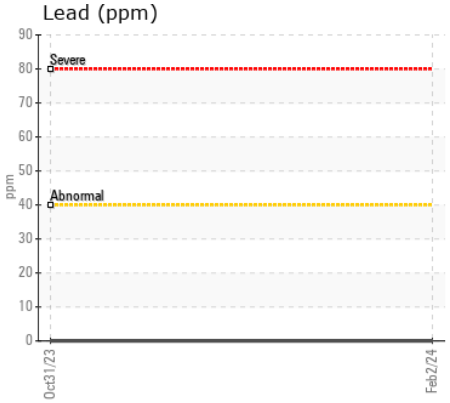
Glycol Contamination



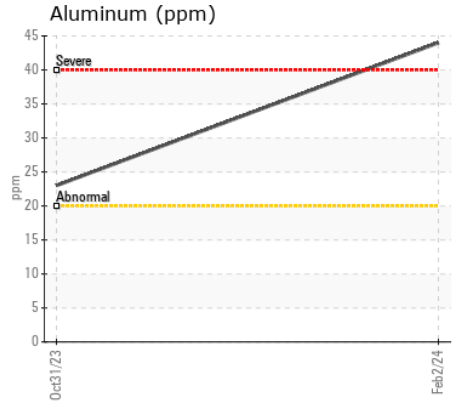
Iron (ppm)



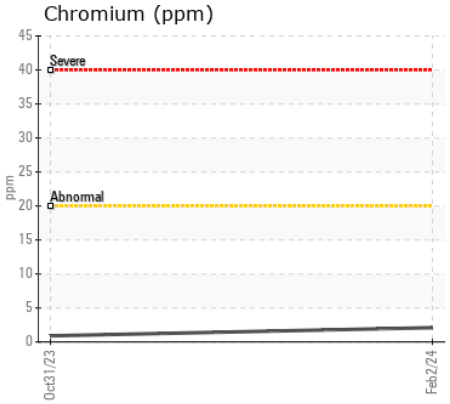
Lead (ppm)



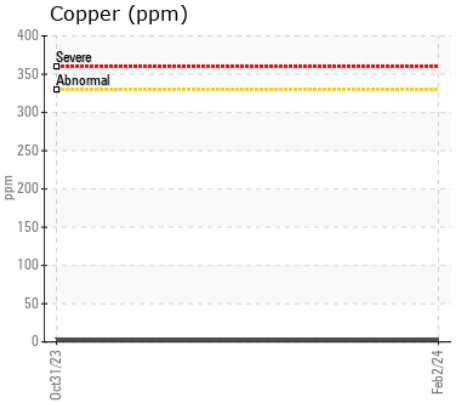
Aluminum (ppm)



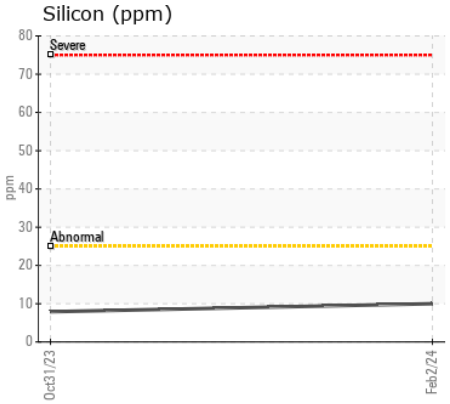
Chromium (ppm)



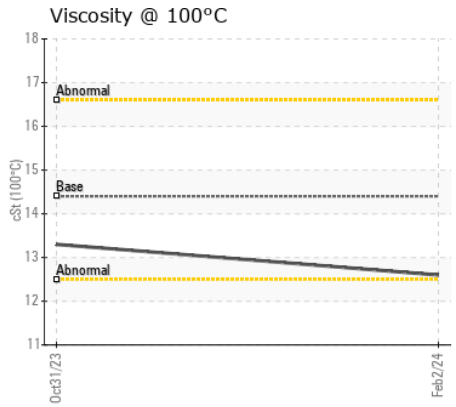
Copper (ppm)



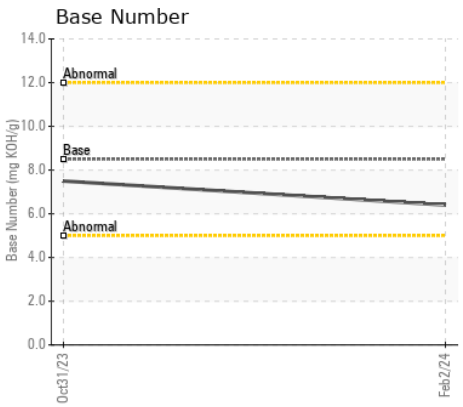
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0870856
Lab Number : 06104818
Unique Number : 10903048
Test Package : MOB 1 (Additional Tests: Glycol, TBN)

Received : 29 Feb 2024
Tested : 05 Mar 2024
Diagnosed : 05 Mar 2024 - Jonathan Hester

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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