MOB I

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL 52953
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

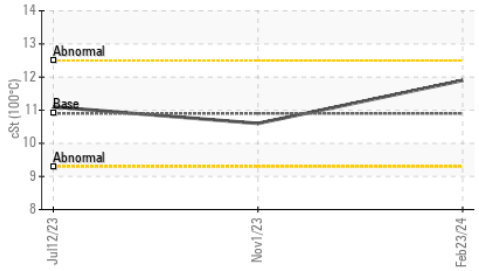
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

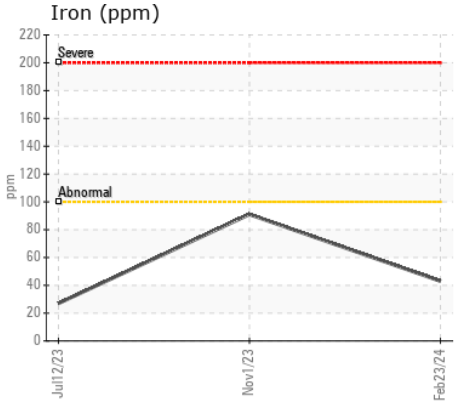
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0892067**	WC0854789	WC0828231
Sample Date		Client Info		**23 Feb 2024**	01 Nov 2023	12 Jul 2023
Machine Age	mls	Client Info		**65029**	34218	102659
Oil Age	mls	Client Info		**30811**	0	0
Filter Age	mls	Client Info		**30811**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>100	**43**	91	27
Chromium	ppm	ASTM D5185(m)	>20	**3**	4	2
Nickel	ppm	ASTM D5185(m)	>4	**<1**	1	0
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)	>3	**<1**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	**13**	40	44
Lead	ppm	ASTM D5185(m)	>40	**3**	3	2
Copper	ppm	ASTM D5185(m)	>330	**138**	132	5
Tin	ppm	ASTM D5185(m)	>15	**2**	4	2
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>25	**7**	11	12
Potassium	ppm	ASTM D5185(m)	>20	**22**	97	111
Fuel		WC Method	>2.0	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	ASTM D7844*	>3	**0.6**	0.5	0.3
Nitration	Abs/cm	ASTM D7624*	>20	**9.8**	10.7	8.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	**21.3**	23.9	21.1
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**3**	6	2
Boron	ppm	ASTM D5185(m)	250	**9**	21	6
Barium	ppm	ASTM D5185(m)	10	**0**	<1	<1
Molybdenum	ppm	ASTM D5185(m)	100	**56**	49	60
Manganese	ppm	ASTM D5185(m)		**<1**	4	1
Magnesium	ppm	ASTM D5185(m)	450	**866**	621	923
Calcium	ppm	ASTM D5185(m)	3000	**1273**	1861	1143
Phosphorus	ppm	ASTM D5185(m)	1150	**920**	769	1035
Zinc	ppm	ASTM D5185(m)	1350	**1123**	964	1197
Sulfur	ppm	ASTM D5185(m)	4250	**1979**	1790	2308
Oxidation	Abs/.1mm	ASTM D7414*	>25	**18.2**	24.1	17.4
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	**11.9**	10.6	11.1

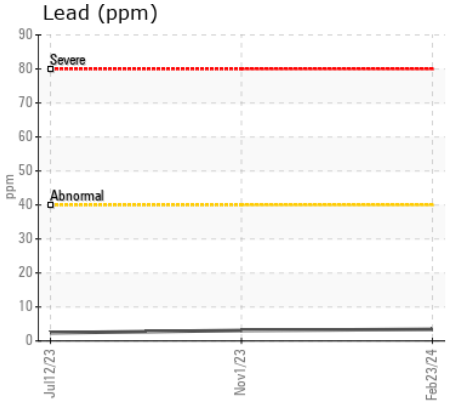
Viscosity @ 100°C



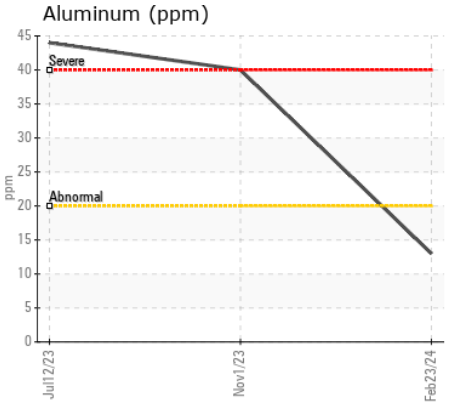
Iron (ppm)



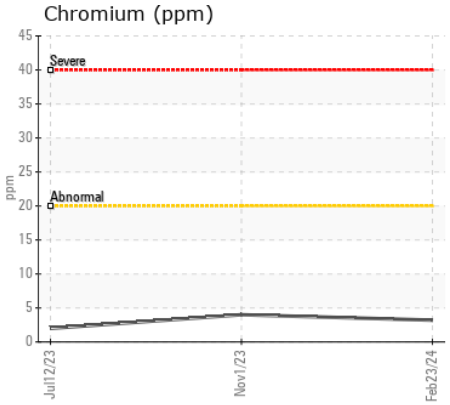
Lead (ppm)



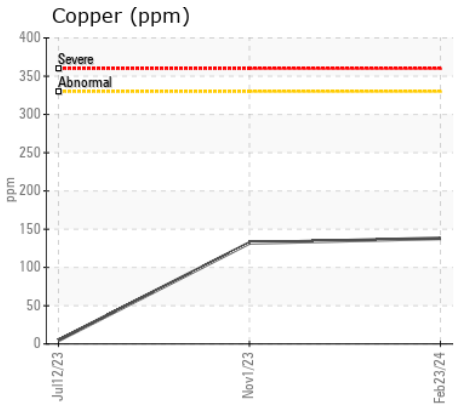
Aluminum (ppm)



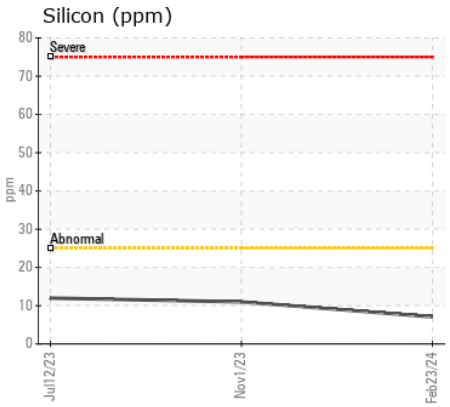
Chromium (ppm)



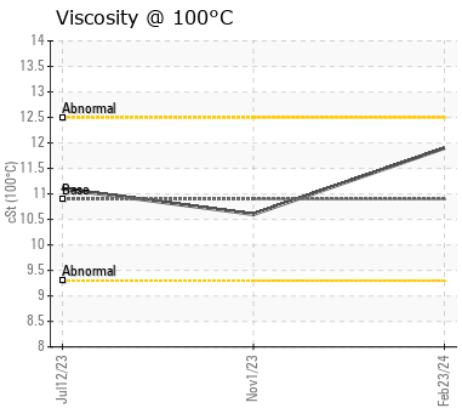
Copper (ppm)



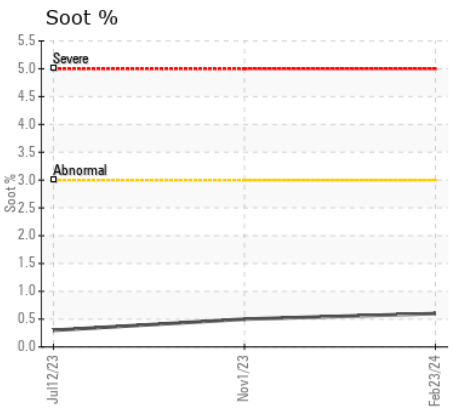
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0892067
Lab Number : 02618912
Unique Number : 5736022
Test Package : MOB 1

Received : 29 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 29 Feb 2024 - Wes Davis

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

MANITOULIN TRANSPORT
75 MUMFORD ROAD
LIVELY, ON
CA P3Y 1L1
Contact: Todd Smith
tosmith@manitoulintransport.com
T: (705)562-3302
F: x: