MOB I

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[6151]
Machine Id
2201
Component
Diesel Engine
Fluid
VALVOLINE 15W40 (--- GAL)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

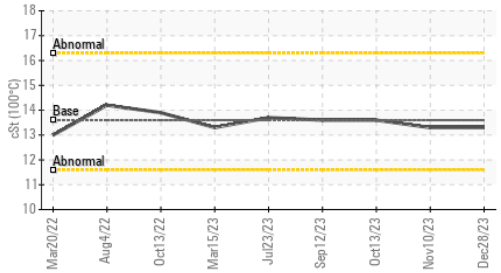
There is no indication of any contamination in the oil.

FLUID CONDITION

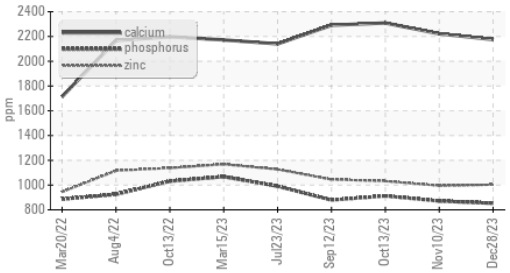
Additive levels indicate the addition of a different brand, or type of oil.
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0875080**	WC0858027	WC0858044
Sample Date		Client Info		**28 Dec 2023**	10 Nov 2023	13 Oct 2023
Machine Age	kms	Client Info		**159313**	14659	138130
Oil Age	kms	Client Info		**0**	0	0
Filter Age	kms	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	N/A
Filter Changed		Client Info		**Changed**	Changed	N/A
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>75	**6**	4	4
Chromium	ppm	ASTM D5185(m)	>5	**0**	0	0
Nickel	ppm	ASTM D5185(m)	>4	**0**	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	0
Silver	ppm	ASTM D5185(m)	>2	**0**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>15	**1**	1	<1
Lead	ppm	ASTM D5185(m)	>25	**0**	<1	0
Copper	ppm	ASTM D5185(m)	>100	**<1**	<1	<1
Tin	ppm	ASTM D5185(m)	>4	**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>25	**3**	3	3
Potassium	ppm	ASTM D5185(m)	>20	**1**	<1	<1
Fuel		WC Method	>3.0	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	ASTM D7844*	>6	**0.1**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**7.9**	7.4	7.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	**20.1**	19.0	19.4
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**1**	1	1
Boron	ppm	ASTM D5185(m)	39	**11**	14	11
Barium	ppm	ASTM D5185(m)	1	**0**	<1	0
Molybdenum	ppm	ASTM D5185(m)	49	**8**	8	8
Manganese	ppm	ASTM D5185(m)	1	**0**	0	0
Magnesium	ppm	ASTM D5185(m)	616	**51**	47	32
Calcium	ppm	ASTM D5185(m)	1554	**2175**	2222	2309
Phosphorus	ppm	ASTM D5185(m)	899	**853**	871	912
Zinc	ppm	ASTM D5185(m)	1069	**1003**	995	1032
Sulfur	ppm	ASTM D5185(m)	2624	**3101**	2908	3015
Oxidation	Abs/.1mm	ASTM D7414*	>25	**12.8**	11.8	12.7
Visc @ 100°C	cSt	ASTM D7279(m)	13.6	**13.3**	13.3	13.6

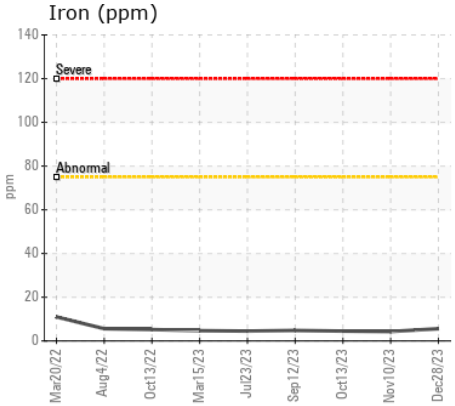
Viscosity @ 100°C



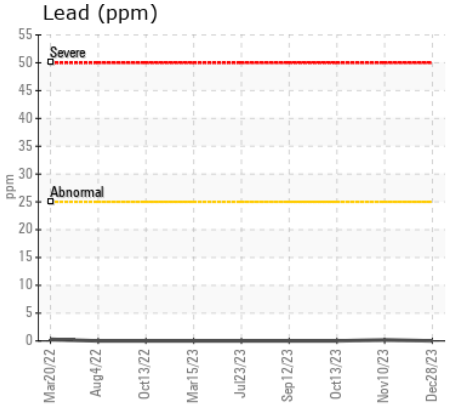
Additives



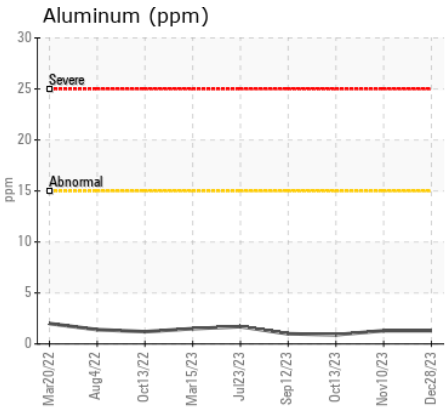
Iron (ppm)



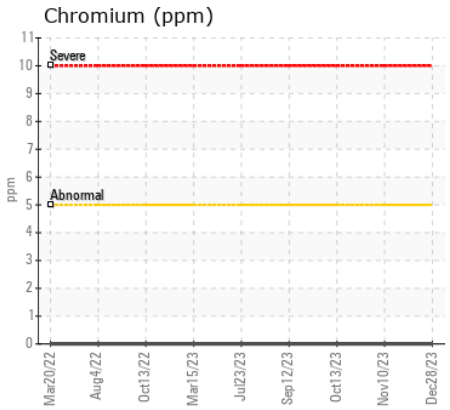
Lead (ppm)



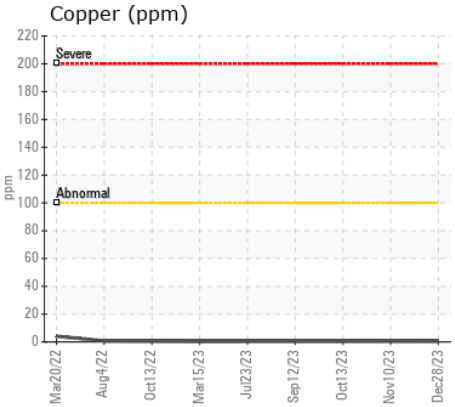
Aluminum (ppm)



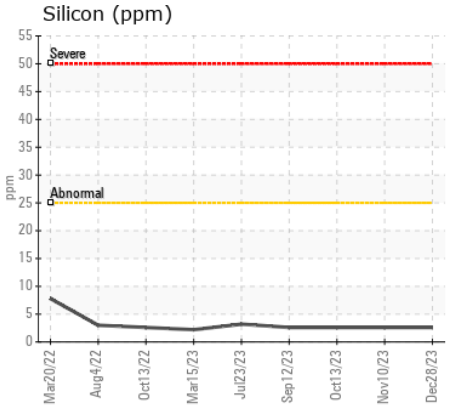
Chromium (ppm)



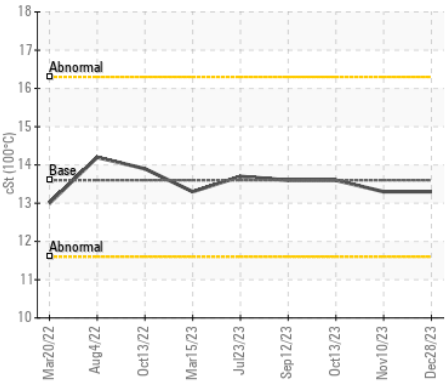
Copper (ppm)



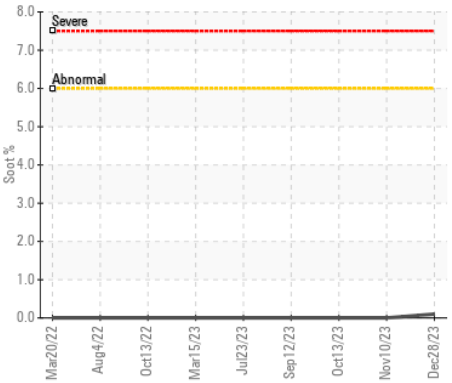
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0875080
Lab Number : 02606934
Unique Number : 5708020
Test Package : MOB 1

Recieved : 08 Jan 2024
Diagnosed : 08 Jan 2024
Diagnostician : Kevin Marson

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.

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