MOB I LUBE 360™ OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ATTENTION

Machine Id
CATERPILLAR MACK
Component
Diesel Engine
Fluid
CO-OP D-MO SAE 15W40 (--- GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

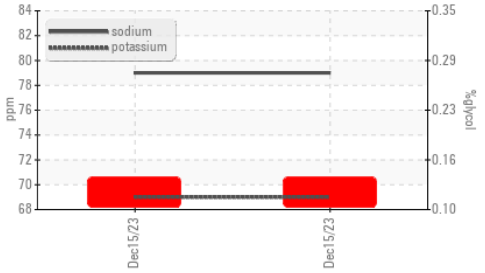
Test for glycol is positive. There is a high concentration of glycol present in the oil.

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable due to the presence of contaminants.

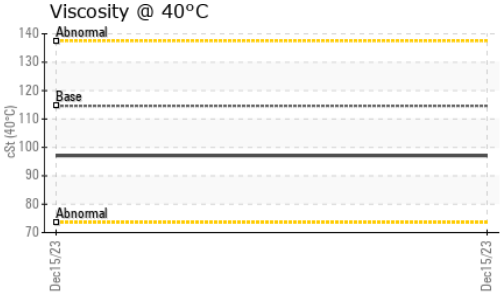
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0061283	---	---
Sample Date		Client Info		15 Dec 2023	---	---
Machine Age	hrs	Client Info		21110	---	---
Oil Age	hrs	Client Info		142	---	---
Filter Age	hrs	Client Info		142	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185(m)	>86	7	---	---
Chromium	ppm	ASTM D5185(m)	>3	0	---	---
Nickel	ppm	ASTM D5185(m)	>3	0	---	---
Titanium	ppm	ASTM D5185(m)	>2	0	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>15	5	---	---
Lead	ppm	ASTM D5185(m)	>16	3	---	---
Copper	ppm	ASTM D5185(m)	>250	85	---	---
Tin	ppm	ASTM D5185(m)	>2	<1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Silicon	ppm	ASTM D5185(m)	>35	6	---	---
Potassium	ppm	ASTM D5185(m)	>20	▲ 69	---	---
Fuel		WC Method	>5	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol	%	ASTM D7922*		⬢ 0.14	---	---
Soot %	%	ASTM D7844*	>3	0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	8.6	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.5	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Sodium	ppm	ASTM D5185(m)		▲ 79	---	---
Boron	ppm	ASTM D5185(m)		32	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		96	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)		19	---	---
Calcium	ppm	ASTM D5185(m)		2123	---	---
Phosphorus	ppm	ASTM D5185(m)		1008	---	---
Zinc	ppm	ASTM D5185(m)	1420	1156	---	---
Sulfur	ppm	ASTM D5185(m)		3362	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.3	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	114.6	97.1	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.3	14.0	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	140	147	---	---

Glycol Contamination

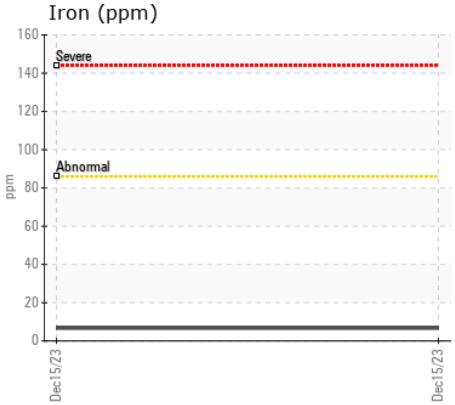


Viscosity @ 100°C

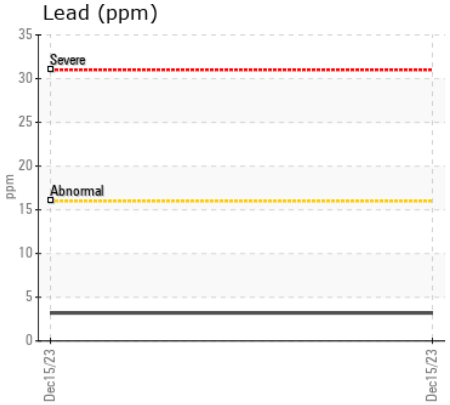
Viscosity @ 40°C



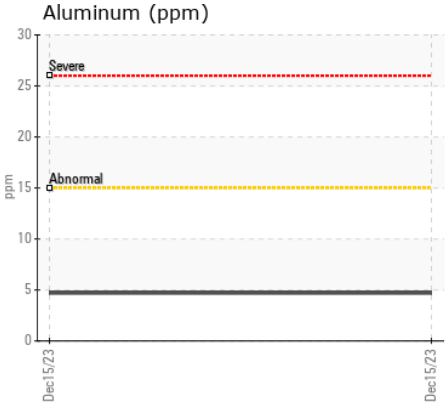
Iron (ppm)



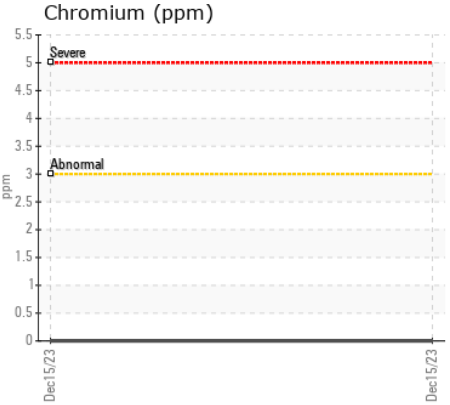
Lead (ppm)



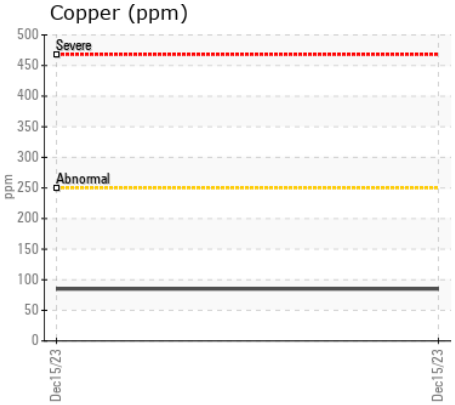
Aluminum (ppm)



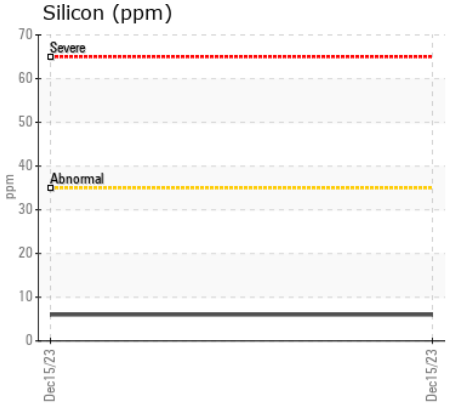
Chromium (ppm)



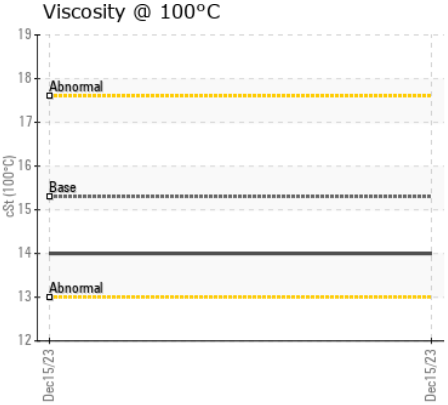
Copper (ppm)



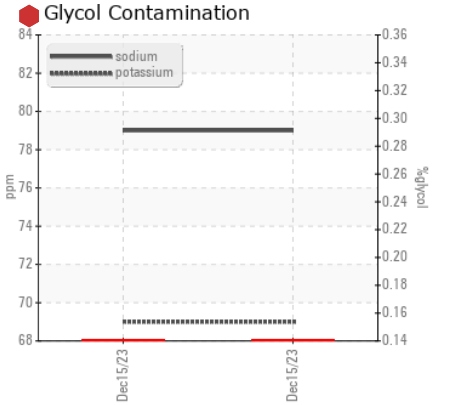
Silicon (ppm)



Viscosity @ 100°C



Glycol Contamination



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: PC0061283	**Recieved**	: 05 Jan 2024
Lab Number	: 02606732	**Diagnosed**	: 05 Jan 2024
Unique Number	: 5707818	**Diagnostician**	: Wes Davis
Test Package	: MOB 1 (Additional Tests: Glycol, KV40, VI)		

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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