MOB

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[42157964]
Machine Id
9777
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

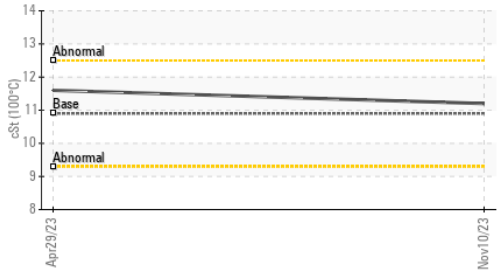
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

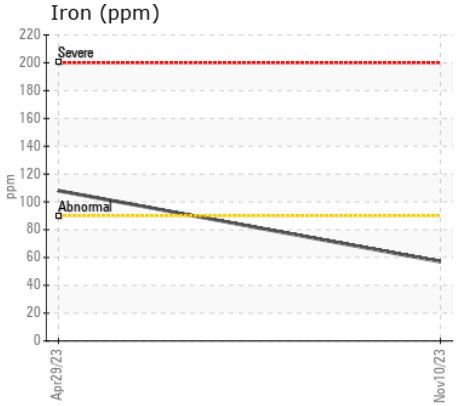
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0853045	WC0796375	---
Sample Date		Client Info		10 Nov 2023	29 Apr 2023	---
Machine Age	kms	Client Info		22028	11334	---
Oil Age	kms	Client Info		0	0	---
Filter Age	kms	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185(m)	>90	57	108	---
Chromium	ppm	ASTM D5185(m)	>20	1	3	---
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	---
Titanium	ppm	ASTM D5185(m)	>2	0	<1	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	7	12	---
Lead	ppm	ASTM D5185(m)	>40	5	6	---
Copper	ppm	ASTM D5185(m)	>330	129	4	---
Tin	ppm	ASTM D5185(m)	>15	1	<1	---
Vanadium	ppm	ASTM D5185(m)		0	<1	---
Silicon	ppm	ASTM D5185(m)	>25	15	8	---
Potassium	ppm	ASTM D5185(m)	>20	17	13	---
Fuel		WC Method	>3.0	<1.0	▲ 3.1	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>6	1.7	0.9	---
Nitration	Abs/cm	ASTM D7624*	>20	10.2	14.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.0	29.2	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185(m)		5	6	---
Boron	ppm	ASTM D5185(m)	250	42	30	---
Barium	ppm	ASTM D5185(m)	10	<1	0	---
Molybdenum	ppm	ASTM D5185(m)	100	62	16	---
Manganese	ppm	ASTM D5185(m)		4	1	---
Magnesium	ppm	ASTM D5185(m)	450	418	762	---
Calcium	ppm	ASTM D5185(m)	3000	1752	1510	---
Phosphorus	ppm	ASTM D5185(m)	1150	991	785	---
Zinc	ppm	ASTM D5185(m)	1350	1165	829	---
Sulfur	ppm	ASTM D5185(m)	4250	2649	2523	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.0	26.2	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	11.2	▲ 11.6	---

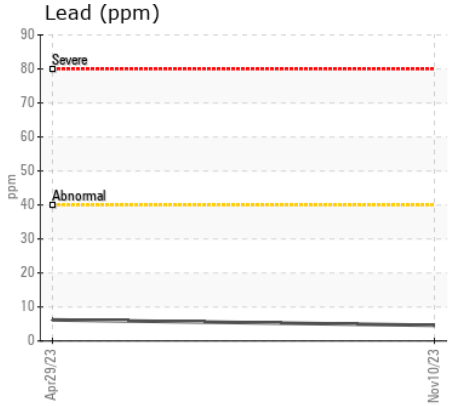
Viscosity @ 100°C



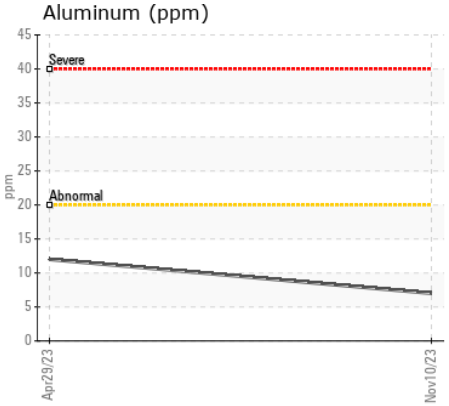
Iron (ppm)



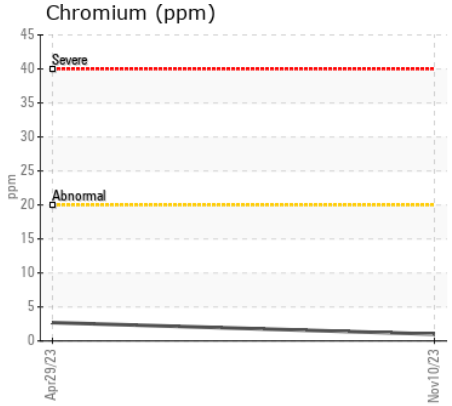
Lead (ppm)



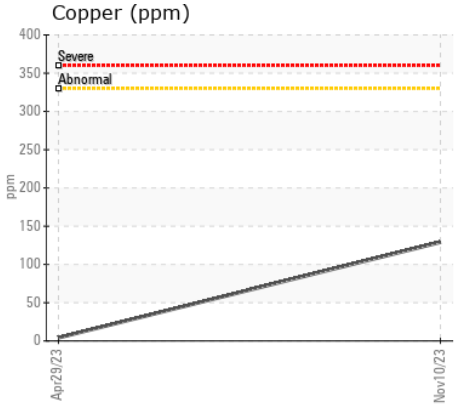
Aluminum (ppm)



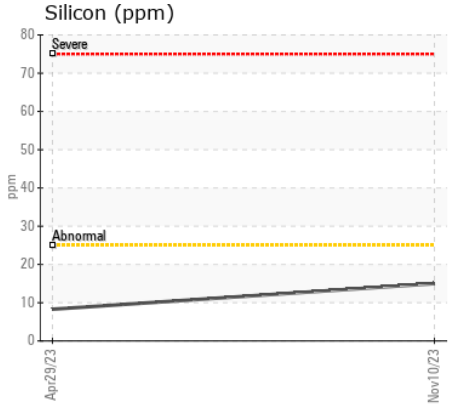
Chromium (ppm)



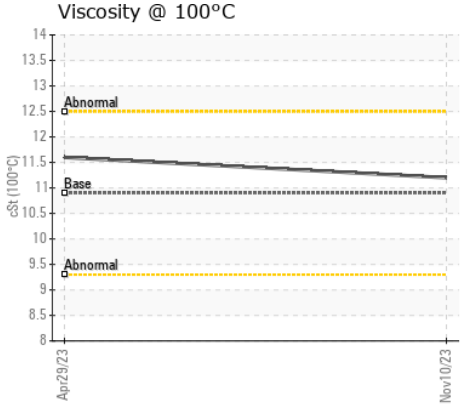
Copper (ppm)



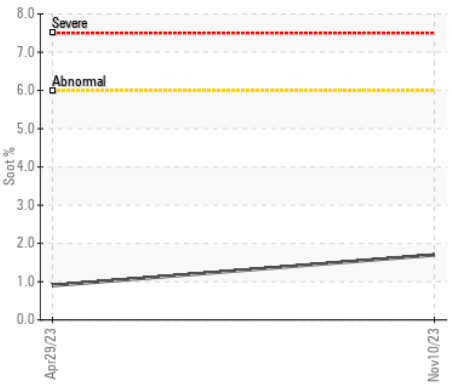
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: WC0853045	**Recieved**	: 09 Jan 2024
Lab Number	: 02607473	**Diagnosed**	: 09 Jan 2024
Unique Number	: 5708559	**Diagnostician**	: Wes Davis
Test Package	: MOB 1		

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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