MOB I

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[43802798]
Machine Id
R274
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SAE 10W30 (--- LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated.

CONTAMINATION

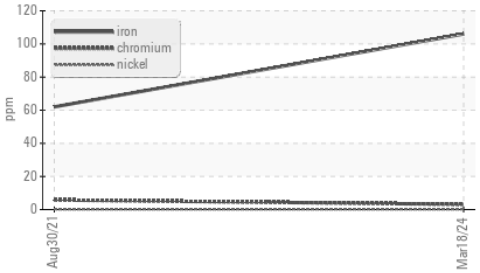
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

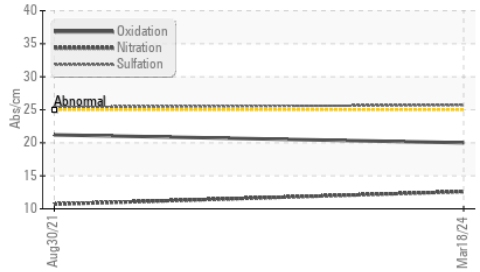
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0553864**	WC0553633	---
Sample Date		Client Info		**18 Mar 2024**	30 Aug 2021	---
Machine Age	kms	Client Info		**254074**	78536	---
Oil Age	kms	Client Info		**44301**	78536	---
Filter Age	kms	Client Info		**0**	78536	---
Oil Changed		Client Info		**Changed**	Changed	---
Filter Changed		Client Info		**Changed**	Changed	---
Sample Status				**ABNORMAL**	NORMAL	---
PQ		ASTM D8184*		**0**	---	---
Iron	ppm	ASTM D5185(m)	>90	▲ **106**	62	---
Chromium	ppm	ASTM D5185(m)	>20	**3**	6	---
Nickel	ppm	ASTM D5185(m)	>2	**<1**	<1	---
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	---
Silver	ppm	ASTM D5185(m)	>2	**0**	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	**15**	17	---
Lead	ppm	ASTM D5185(m)	>40	**2**	8	---
Copper	ppm	ASTM D5185(m)	>330	**3**	12	---
Tin	ppm	ASTM D5185(m)	>15	**<1**	2	---
Vanadium	ppm	ASTM D5185(m)		**0**	<1	---
Silicon	ppm	ASTM D5185(m)	>25	**5**	13	---
Potassium	ppm	ASTM D5185(m)	>20	**29**	43	---
Fuel		WC Method	>3.0	**<1.0**	<1.0	---
Water		WC Method	>0.2	**NEG**	NEG	---
Glycol		WC Method		**NEG**	0.0	---
Soot %	%	ASTM D7844*	>6	**0.8**	0.3	---
Nitration	Abs/cm	ASTM D7624*	>20	**12.6**	10.7	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**25.7**	25.4	---
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	---
Sodium	ppm	ASTM D5185(m)		**3**	2	---
Boron	ppm	ASTM D5185(m)		**20**	77	---
Barium	ppm	ASTM D5185(m)		**0**	<1	---
Molybdenum	ppm	ASTM D5185(m)		**6**	100	---
Manganese	ppm	ASTM D5185(m)		**1**	2	---
Magnesium	ppm	ASTM D5185(m)		**731**	582	---
Calcium	ppm	ASTM D5185(m)		**1406**	1682	---
Phosphorus	ppm	ASTM D5185(m)	1260	**679**	788	---
Zinc	ppm	ASTM D5185(m)	1400	**786**	906	---
Sulfur	ppm	ASTM D5185(m)		**2412**	2165	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	**20.0**	21.2	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.1	**11.2**	13.1	---

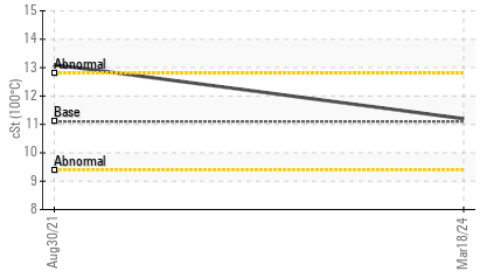
Ferrous Alloys



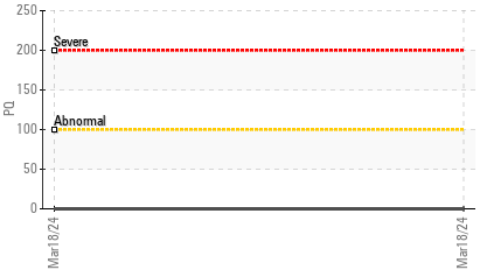
FT-IR (Direct Trend)



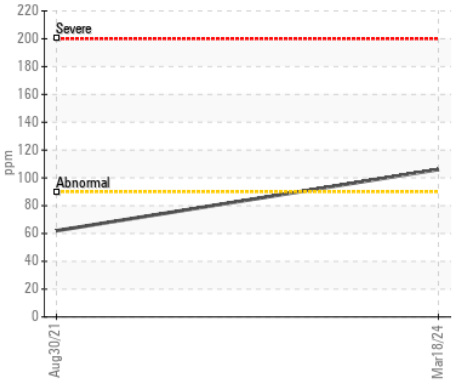
Viscosity @ 100°C



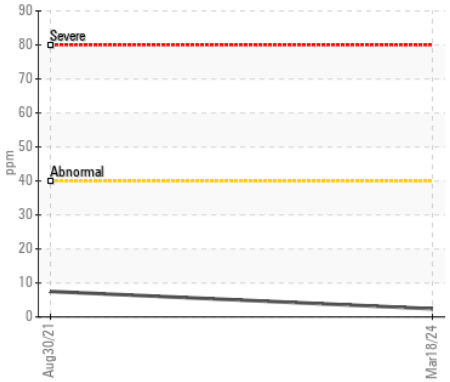
PQ



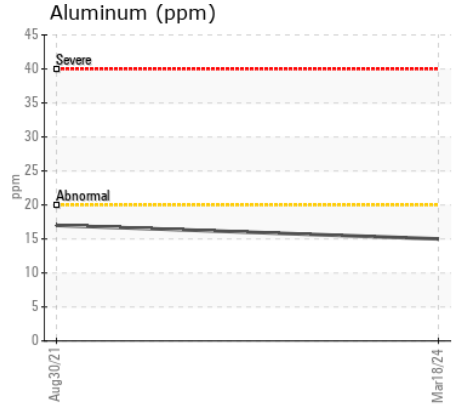
Iron (ppm)



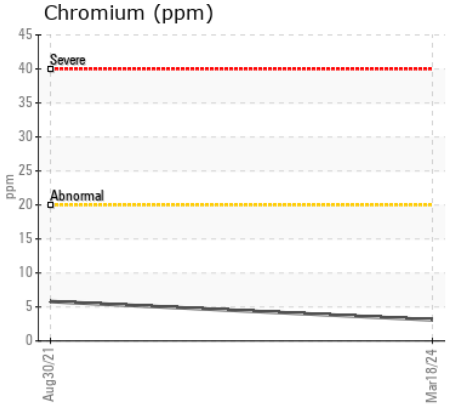
Lead (ppm)



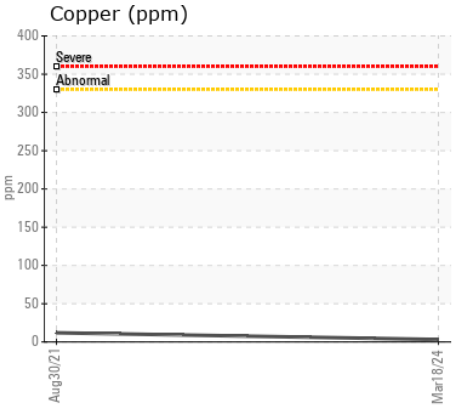
Aluminum (ppm)



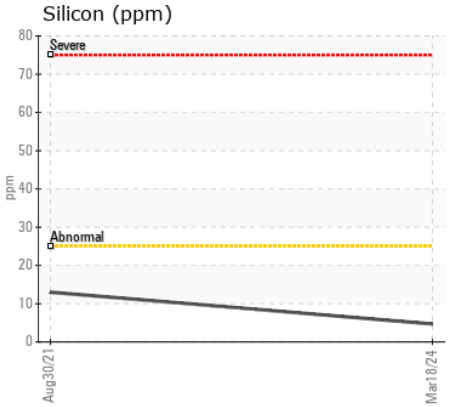
Chromium (ppm)



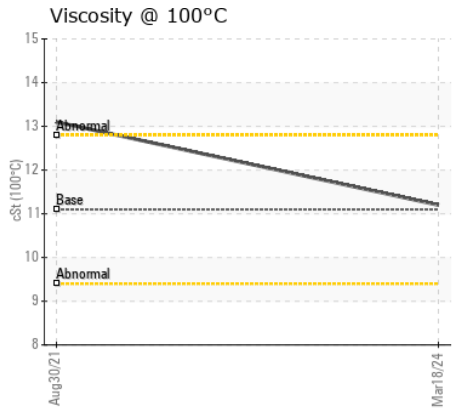
Copper (ppm)



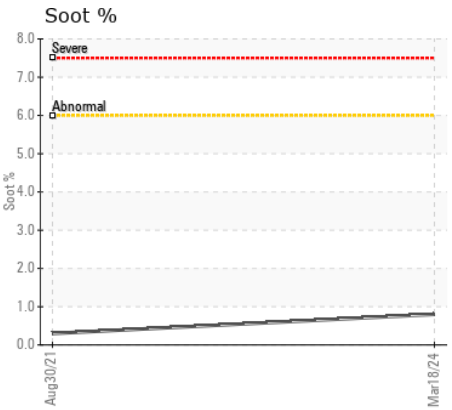
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0553864
Lab Number : 02627671
Unique Number : 5760803
Test Package : MOB 1 (Additional Tests: PQ)

Received : 09 Apr 2024
Tested : 09 Apr 2024
Diagnosed : 09 Apr 2024 - 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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