MOB I

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[42815371]
Machine Id
R255
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SAE 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

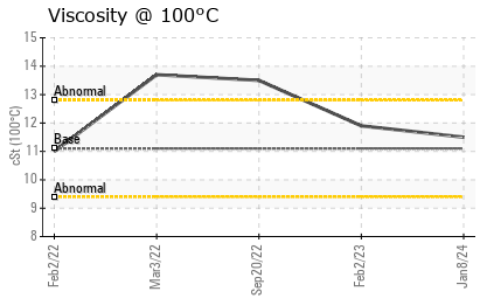
CONTAMINATION

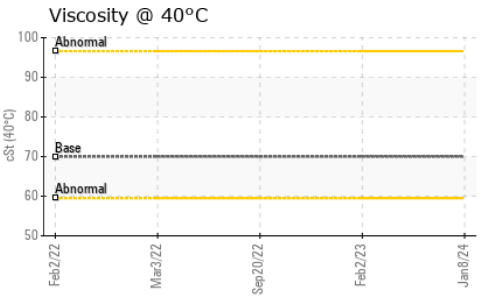
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

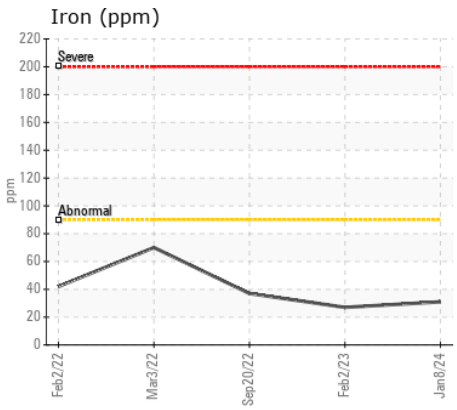
FLUID CONDITION

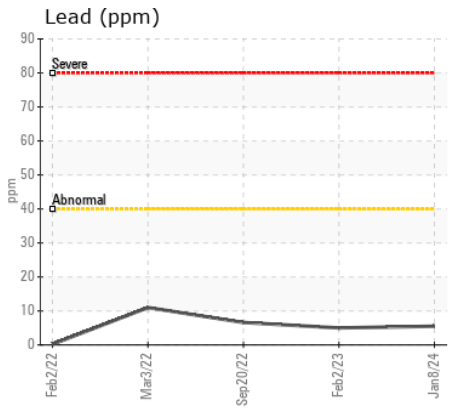
The condition of the oil is acceptable for the time in service.

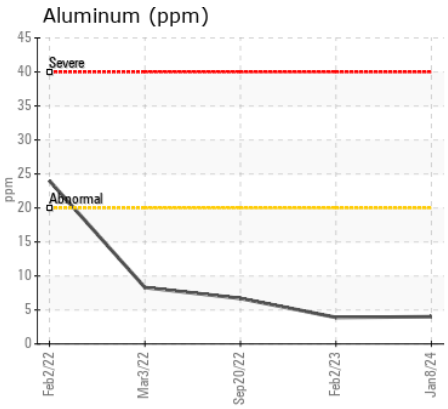
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0553863	WC0553848	WC0553853
Sample Date		Client Info		08 Jan 2024	02 Feb 2023	20 Sep 2022
Machine Age	kms	Client Info		482733	340908	282972
Oil Age	kms	Client Info		54000	100000	65000
Filter Age	kms	Client Info		54000	100000	65000
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>90	31	27	37
Chromium	ppm	ASTM D5185(m)	>20	1	1	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	4	4	7
Lead	ppm	ASTM D5185(m)	>40	6	5	7
Copper	ppm	ASTM D5185(m)	>330	2	2	2
Tin	ppm	ASTM D5185(m)	>15	<1	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185(m)	>25	4	5	6
Potassium	ppm	ASTM D5185(m)	>20	6	6	8
Fuel		WC Method	>3.0	<1.0	1.1	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.7	0.3	0.4
Nitration	Abs/cm	ASTM D7624*	>20	11.3	10.9	11.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.5	27.4	27.6
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		3	3	3
Boron	ppm	ASTM D5185(m)		25	55	51
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		5	39	127
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		764	717	564
Calcium	ppm	ASTM D5185(m)		1421	1560	1677
Phosphorus	ppm	ASTM D5185(m)	1260	729	782	763
Zinc	ppm	ASTM D5185(m)	1400	805	844	865
Sulfur	ppm	ASTM D5185(m)		2652	2471	2121
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.4	19.8	22.6
Visc @ 40°C	cSt	ASTM D7279(m)	70	79.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.1	11.5	11.9	13.5
Viscosity Index (VI)	Scale	ASTM D2270*	150	136	---	---

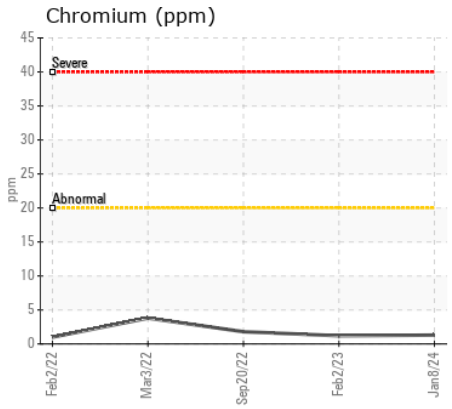


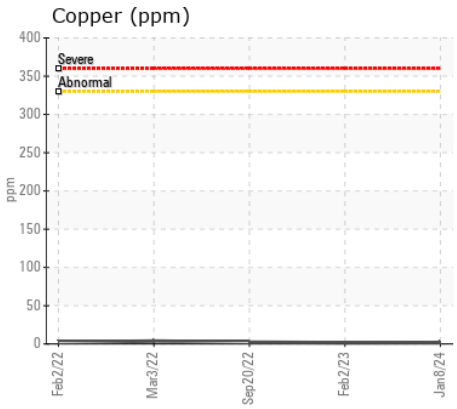


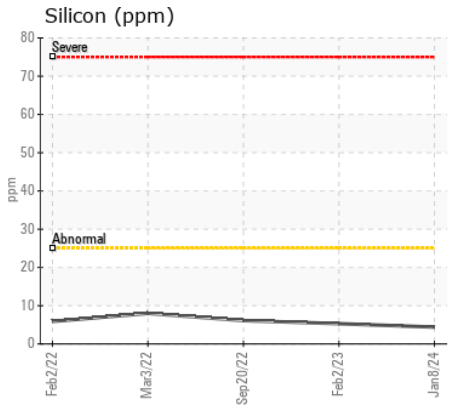


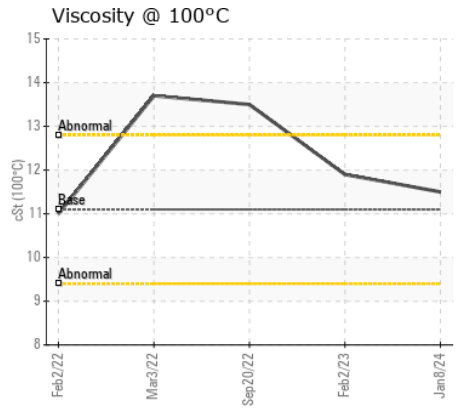


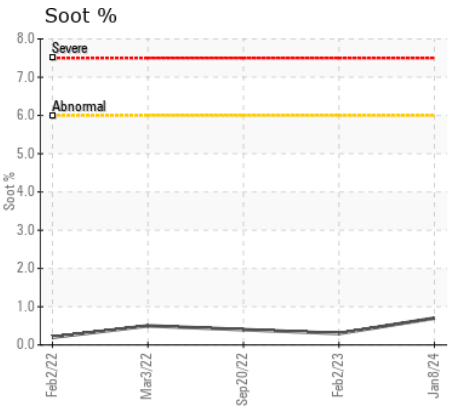












ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: WC0553863	**Received**	: 22 Feb 2024
Lab Number	: 02617350	**Tested**	: 22 Feb 2024
Unique Number	: 5734460	**Diagnosed**	: 22 Feb 2024 - Wes Davis
Test Package	: MOB 1 (Additional Tests: KV40, VI, Visual)		

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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