MOB WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FREIGHTLINER 52904
Component
Diesel Engine
Fluid
PETRO CANADA DURON SAE 10W30 (--- 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

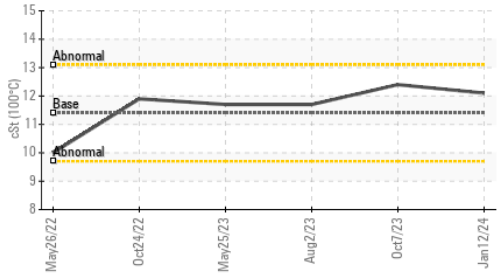
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

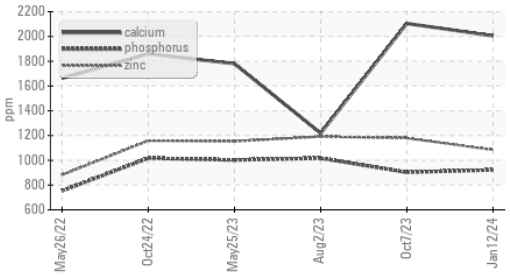
Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0892039**	WC0863980	WC0720925
Sample Date		Client Info		**12 Jan 2024**	07 Oct 2023	02 Aug 2023
Machine Age	kms	Client Info		**551849**	0	445864
Oil Age	kms	Client Info		**0**	0	0
Filter Age	kms	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	N/A	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>65	**11**	19	18
Chromium	ppm	ASTM D5185(m)	>5	**<1**	2	2
Nickel	ppm	ASTM D5185(m)	>3	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)	>5	**0**	0	<1
Silver	ppm	ASTM D5185(m)	>2	**<1**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>35	**6**	9	8
Lead	ppm	ASTM D5185(m)	>10	**<1**	<1	<1
Copper	ppm	ASTM D5185(m)	>180	**5**	6	9
Tin	ppm	ASTM D5185(m)	>8	**0**	0	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>15	**3**	6	7
Potassium	ppm	ASTM D5185(m)	>20	**10**	8	3
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*	>3	**0.3**	0.7	0.6
Nitration	Abs/cm	ASTM D7624*	>20	**8.5**	9.0	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	**22.2**	24.7	21.4
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**2**	8	7
Boron	ppm	ASTM D5185(m)	1	**88**	34	3
Barium	ppm	ASTM D5185(m)	1	**0**	<1	0
Molybdenum	ppm	ASTM D5185(m)	1	**9**	10	63
Manganese	ppm	ASTM D5185(m)	1	**0**	0	<1
Magnesium	ppm	ASTM D5185(m)	10	**118**	135	875
Calcium	ppm	ASTM D5185(m)	2942	**2005**	2105	1219
Phosphorus	ppm	ASTM D5185(m)	1102	**922**	903	1017
Zinc	ppm	ASTM D5185(m)	1351	**1084**	1179	1191
Sulfur	ppm	ASTM D5185(m)	3903	**2863**	2637	2264
Oxidation	Abs/.1mm	ASTM D7414*	>25	**16.9**	18.9	15.3
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	**12.1**	12.4	11.7

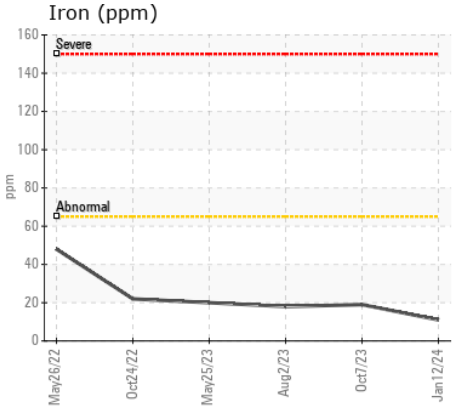
Viscosity @ 100°C



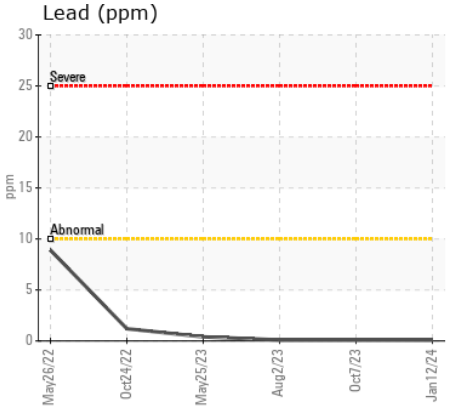
Additives



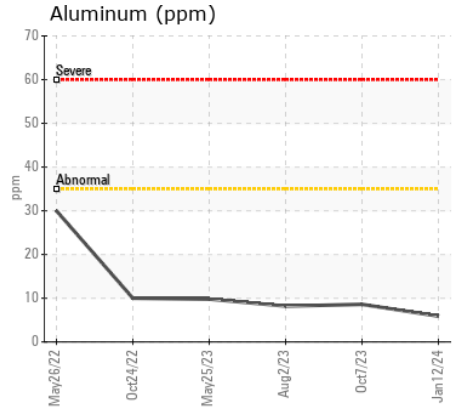
Iron (ppm)



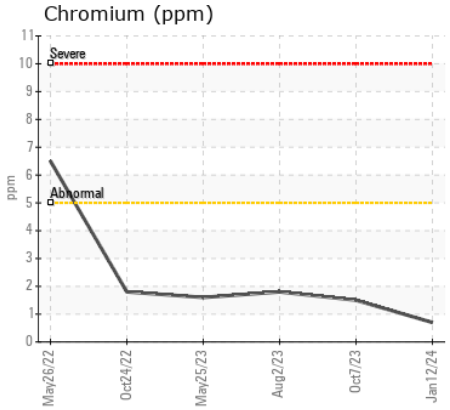
Lead (ppm)



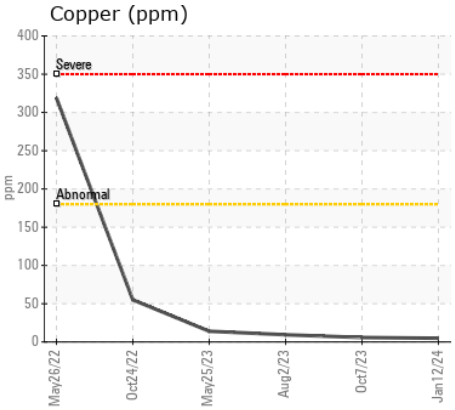
Aluminum (ppm)



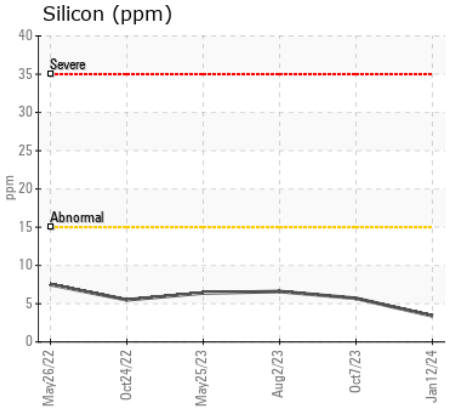
Chromium (ppm)



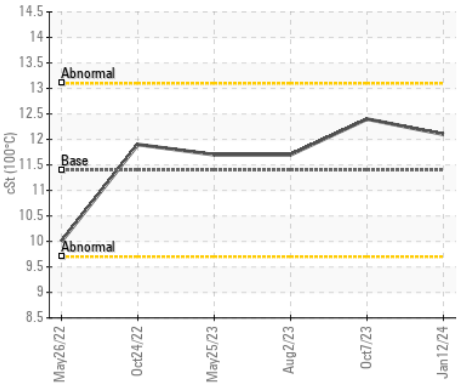
Copper (ppm)



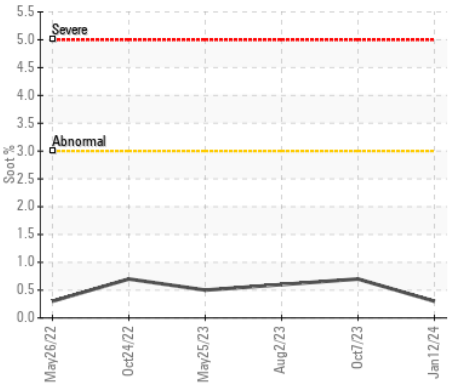
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: WC0892039	**Recieved**	: 18 Jan 2024
Lab Number	: 02609649	**Diagnosed**	: 18 Jan 2024
Unique Number	: 5710735	**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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