MOB I

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
DODGE AM98154
Component
Diesel Engine
Fluid
SAE 5W40 (12 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

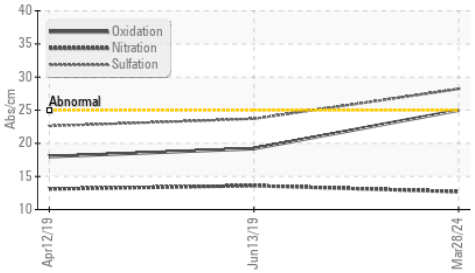
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

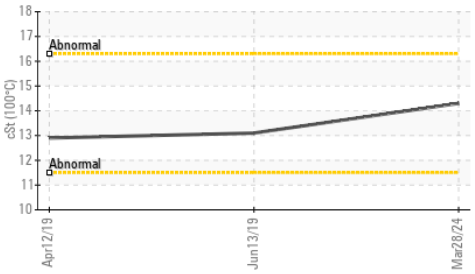
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0855599**	WC113493	WC113491
Sample Date		Client Info		**28 Mar 2024**	13 Jun 2019	12 Apr 2019
Machine Age	kms	Client Info		**118118**	208800	0
Oil Age	kms	Client Info		**18000**	5400	5636
Filter Age	kms	Client Info		**18000**	5400	5636
Oil Changed		Client Info		**Changed**	Not Changd	Changed
Filter Changed		Client Info		**N/A**	Not Changd	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>90	**108**	29	30
Chromium	ppm	ASTM D5185(m)	>20	**<1**	1	<1
Nickel	ppm	ASTM D5185(m)	>2	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	**<1**	<1	0
Silver	ppm	ASTM D5185(m)	>2	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>20	**13**	19	17
Lead	ppm	ASTM D5185(m)	>40	**0**	<1	0
Copper	ppm	ASTM D5185(m)	>330	**2**	<1	<1
Tin	ppm	ASTM D5185(m)	>15	**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>25	**7**	6	6
Potassium	ppm	ASTM D5185(m)	>20	**26**	28	25
Fuel		WC Method	>3.0	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	0.0	0.0
Soot %	%	ASTM D7844*	>6	**0.9**	1.1	1
Nitration	Abs/cm	ASTM D7624*	>20	**12.7**	13.6	13.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	**28.2**	23.7	22.6
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**3**	3	3
Boron	ppm	ASTM D5185(m)		**54**	49	61
Barium	ppm	ASTM D5185(m)		**0**	0	0
Molybdenum	ppm	ASTM D5185(m)		**<1**	67	70
Manganese	ppm	ASTM D5185(m)		**0**	<1	<1
Magnesium	ppm	ASTM D5185(m)		**73**	90	14
Calcium	ppm	ASTM D5185(m)		**1843**	1868	2042
Phosphorus	ppm	ASTM D5185(m)		**712**	917	951
Zinc	ppm	ASTM D5185(m)		**851**	1082	1113
Sulfur	ppm	ASTM D5185(m)		**2392**	3832	4100
Oxidation	Abs/.1mm	ASTM D7414*	>25	**25.0**	19.2	18.0
Visc @ 100°C	cSt	ASTM D7279(m)		**14.3**	13.1	12.9

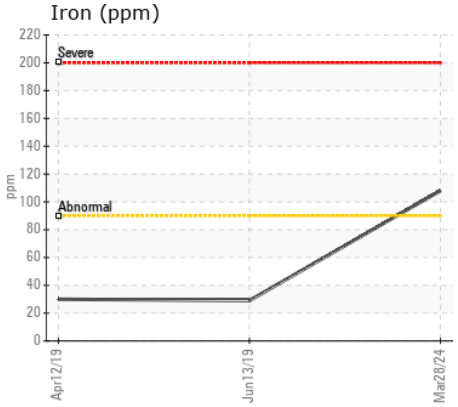
FT-IR (Direct Trend)



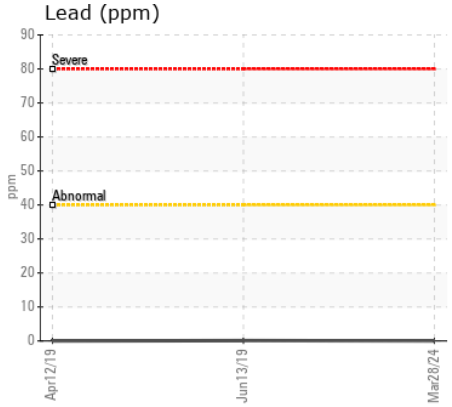
Viscosity @ 100°C



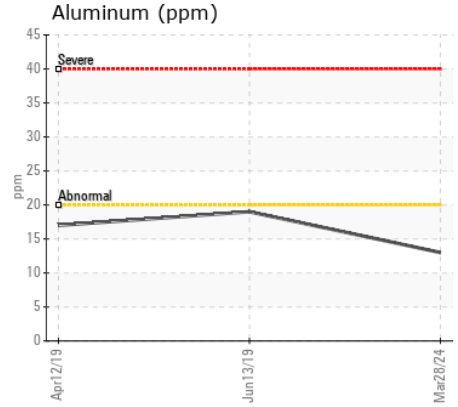
Iron (ppm)



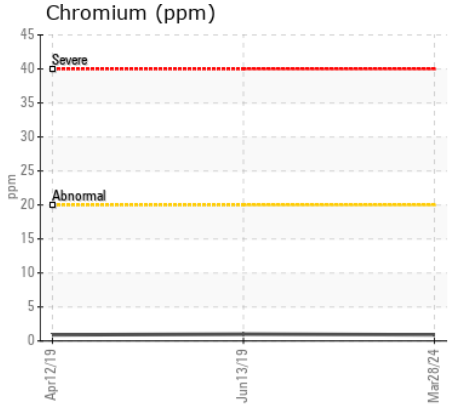
Lead (ppm)



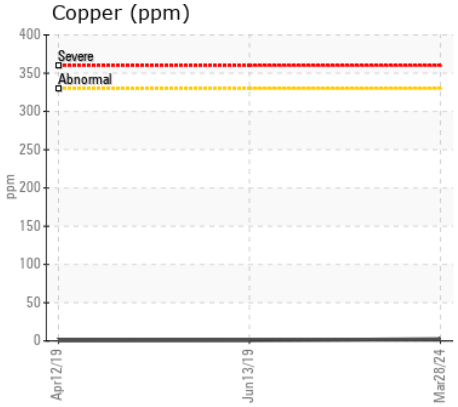
Aluminum (ppm)



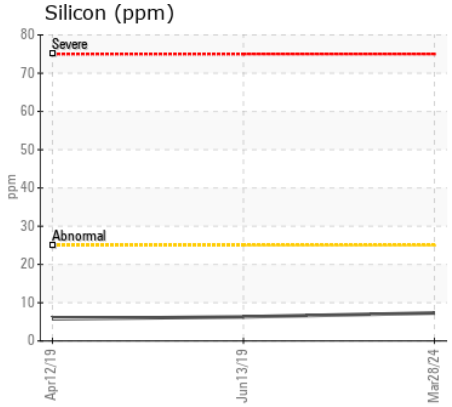
Chromium (ppm)



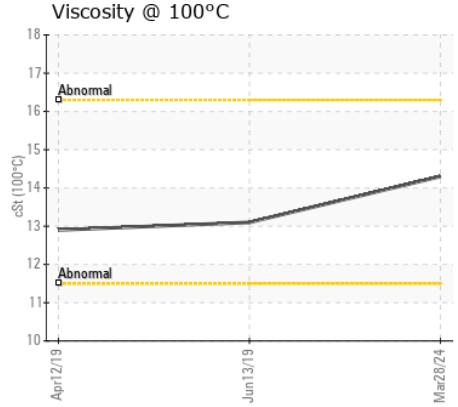
Copper (ppm)



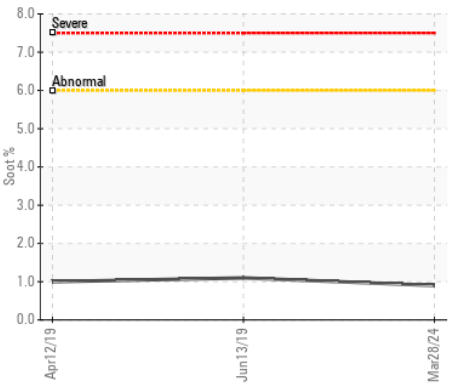
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0855599
Lab Number : 02626532
Unique Number : 5759664
Test Package : MOB 1

Received : 04 Apr 2024
Tested : 04 Apr 2024
Diagnosed : 04 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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