MOB I LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2721001
Component
Diesel Engine
Fluid
SHELL ROTELLA T 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

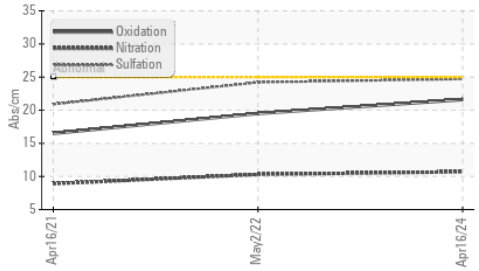
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

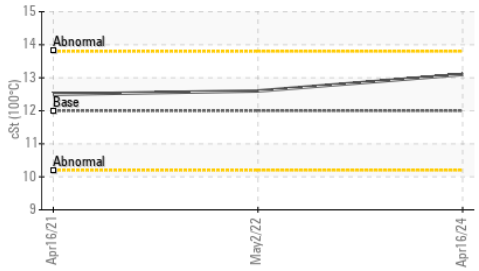
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**PC0083995**	PC0058995	PC0038399
Sample Date		Client Info		**16 Apr 2024**	02 May 2022	16 Apr 2021
Machine Age	kms	Client Info		**133234**	65143	35086
Oil Age	kms	Client Info		**30000**	30000	14000
Filter Age	kms	Client Info		**30000**	30000	14000
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>200	**52**	40	21
Chromium	ppm	ASTM D5185(m)	>6	**4**	4	2
Nickel	ppm	ASTM D5185(m)	>3	**0**	1	<1
Titanium	ppm	ASTM D5185(m)	>2	**<1**	0	<1
Silver	ppm	ASTM D5185(m)	>2	**0**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>50	**13**	10	11
Lead	ppm	ASTM D5185(m)	>10	**0**	2	4
Copper	ppm	ASTM D5185(m)	>50	**14**	53	115
Tin	ppm	ASTM D5185(m)	>6	**2**	4	4
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>50	**12**	5	4
Potassium	ppm	ASTM D5185(m)	>20	**18**	16	28
Fuel		WC Method	>3.0	**<1.0**	<1.0	0.1
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	0.0
Soot %	%	ASTM D7844*	>3	**0.6**	0.5	0.1
Nitration	Abs/cm	ASTM D7624*	>20	**10.7**	10.3	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	**24.7**	24.2	20.9
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**4**	2	2
Boron	ppm	ASTM D5185(m)		**21**	3	8
Barium	ppm	ASTM D5185(m)		**0**	0	0
Molybdenum	ppm	ASTM D5185(m)		**54**	56	50
Manganese	ppm	ASTM D5185(m)		**1**	1	1
Magnesium	ppm	ASTM D5185(m)		**463**	939	911
Calcium	ppm	ASTM D5185(m)		**1820**	1224	1077
Phosphorus	ppm	ASTM D5185(m)		**980**	1027	864
Zinc	ppm	ASTM D5185(m)		**1222**	1244	1169
Sulfur	ppm	ASTM D5185(m)		**2341**	1974	2276
Oxidation	Abs/.1mm	ASTM D7414*	>25	**21.6**	19.5	16.5
Visc @ 40°C	cSt	ASTM D7279(m)	81	**93.2**	93.7	89.2
Visc @ 100°C	cSt	ASTM D7279(m)	12.	**13.1**	12.6	12.5
Viscosity Index (VI)	Scale	ASTM D2270*	141	**139**	130	136

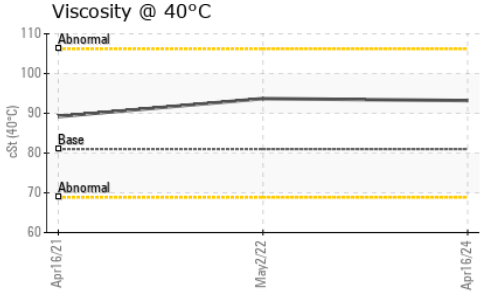
FT-IR (Direct Trend)



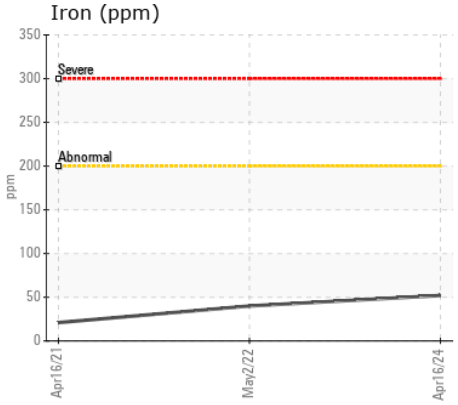
Viscosity @ 100°C



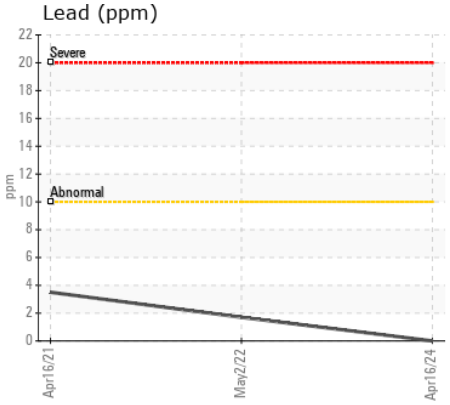
Viscosity @ 40°C



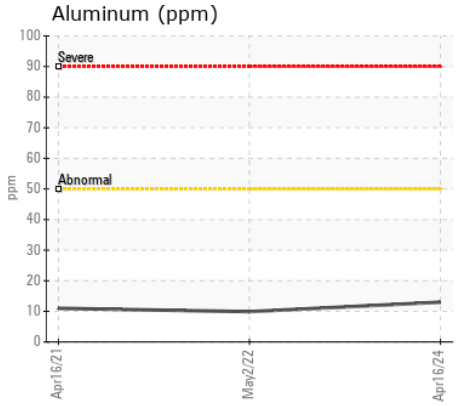
Iron (ppm)



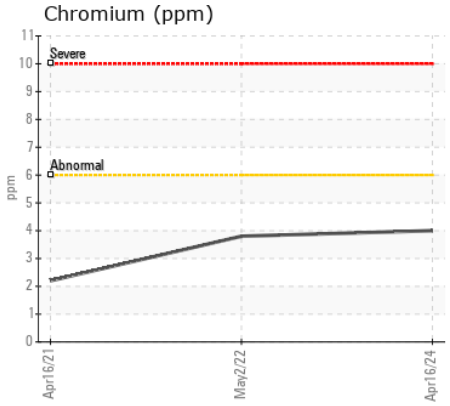
Lead (ppm)



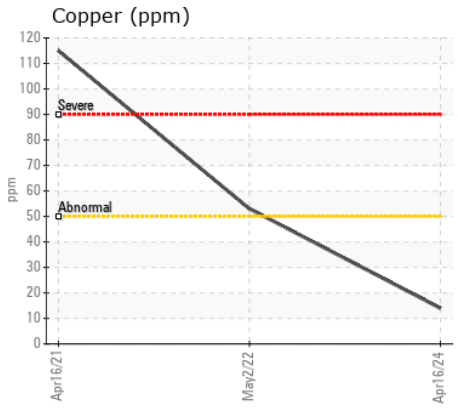
Aluminum (ppm)



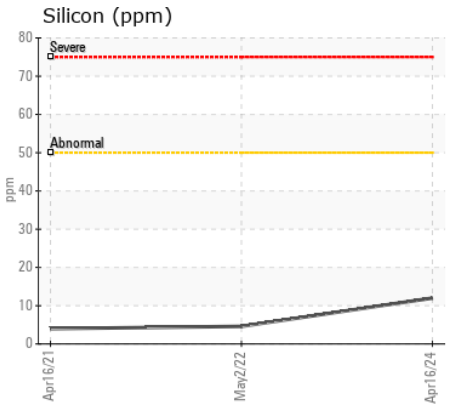
Chromium (ppm)



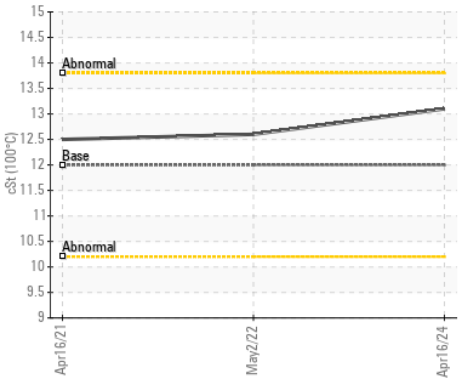
Copper (ppm)



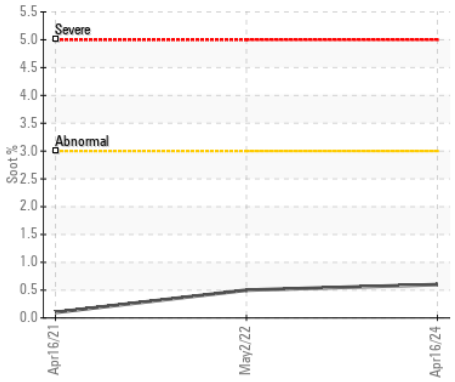
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083995 **Received** : 03 Jun 2024
Lab Number : 02639358 **Tested** : 03 Jun 2024
Unique Number : 5788520 **Diagnosed** : 03 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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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