MOB I LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
3721003
Component
Diesel Engine
Fluid
SHELL ROTELLA T4 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

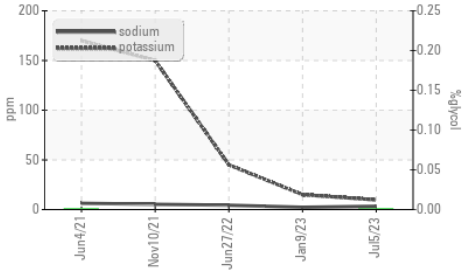
There is no indication of any contamination in the oil.

FLUID CONDITION

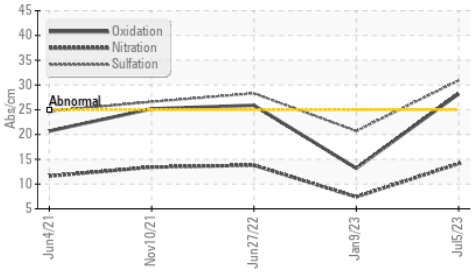
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**PC0074760**	PC0066868	PC0059847
Sample Date		Client Info		**05 Jul 2023**	09 Jan 2023	27 Jun 2022
Machine Age	kms	Client Info		**274510**	224510	167215
Oil Age	kms	Client Info		**55000**	52000	59000
Filter Age	kms	Client Info		**55000**	52000	59000
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	**41**	45	73
Chromium	ppm	ASTM D5185(m)	>6	**2**	2	4
Nickel	ppm	ASTM D5185(m)	>3	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	<1	<1
Silver	ppm	ASTM D5185(m)	>2	**<1**	0	<1
Aluminum	ppm	ASTM D5185(m)	>50	**11**	12	25
Lead	ppm	ASTM D5185(m)	>10	**<1**	<1	1
Copper	ppm	ASTM D5185(m)	>50	**10**	18	37
Tin	ppm	ASTM D5185(m)	>6	**<1**	1	2
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>50	**7**	7	8
Potassium	ppm	ASTM D5185(m)	>20	**10**	15	45
Fuel		WC Method	>3.0	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol	%	ASTM D7922*		**0.0**	NEG	NEG
Soot %	%	ASTM D7844*	>3	**1**	0.3	0.9
Nitration	Abs/cm	ASTM D7624*	>20	**14.1**	7.4	13.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	**30.9**	20.7	28.3
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**3**	2	4
Boron	ppm	ASTM D5185(m)		**15**	5	3
Barium	ppm	ASTM D5185(m)		**0**	0	0
Molybdenum	ppm	ASTM D5185(m)		**59**	65	61
Manganese	ppm	ASTM D5185(m)		**<1**	<1	2
Magnesium	ppm	ASTM D5185(m)		**537**	1048	1008
Calcium	ppm	ASTM D5185(m)		**1807**	1237	1243
Phosphorus	ppm	ASTM D5185(m)		**1129**	1160	1017
Zinc	ppm	ASTM D5185(m)		**1322**	1305	1311
Sulfur	ppm	ASTM D5185(m)		**2394**	2106	1994
Oxidation	Abs/.1mm	ASTM D7414*	>25	**28.2**	13.2	25.9
Visc @ 40°C	cSt	ASTM D7279(m)	81.8	**100**	111	103
Visc @ 100°C	cSt	ASTM D7279(m)	12.1	**13.6**	14.5	14
Viscosity Index (VI)	Scale	ASTM D2270*	141	**136**	133	137

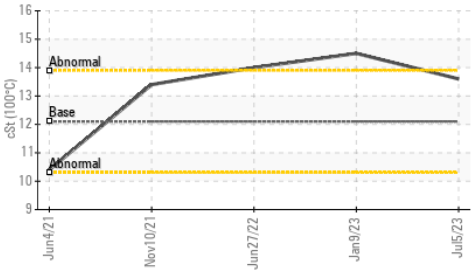
Glycol Contamination



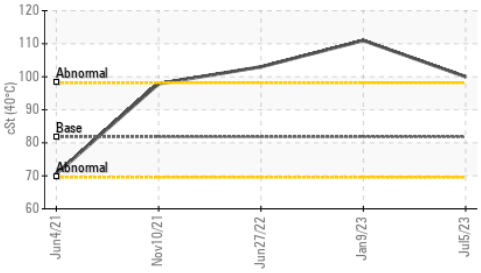
FT-IR (Direct Trend)



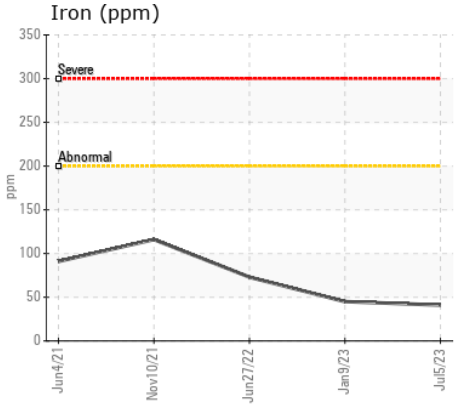
Viscosity @ 100°C



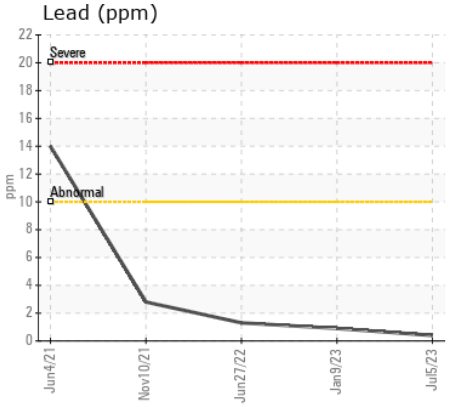
Viscosity @ 40°C



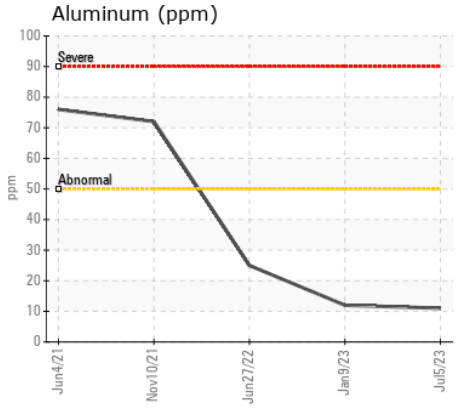
Iron (ppm)



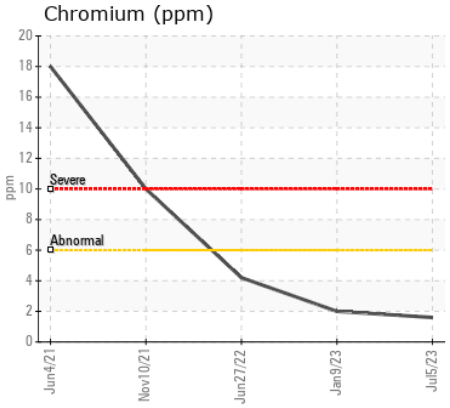
Lead (ppm)



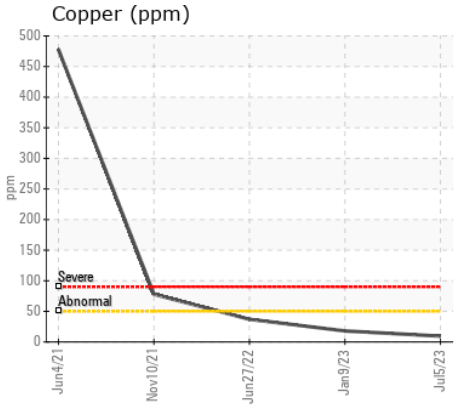
Aluminum (ppm)



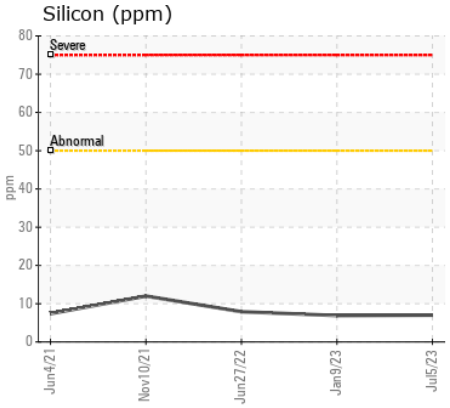
Chromium (ppm)



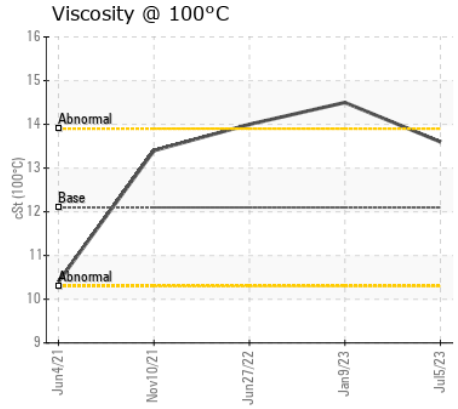
Copper (ppm)



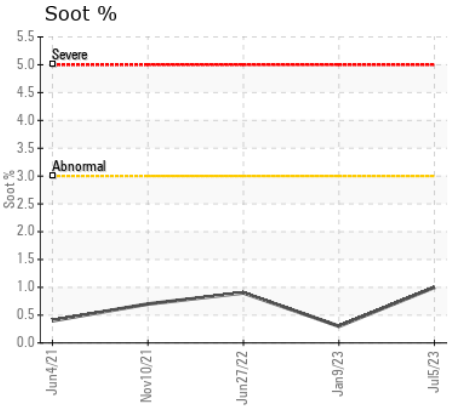
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0074760 **Received** : 05 Sep 2023
Lab Number : 02580236 **Tested** : 06 Sep 2023
Unique Number : 5633296 **Diagnosed** : 07 Sep 2023 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, 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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