MOB I WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
60086
Component
Diesel Engine
Fluid
VALVOLINE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

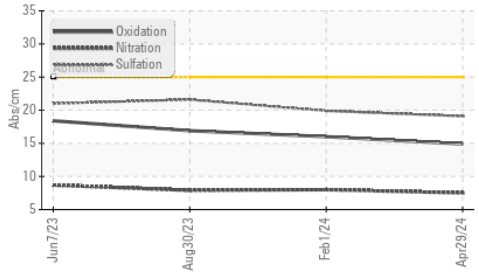
There is no indication of any contamination in the oil.

FLUID CONDITION

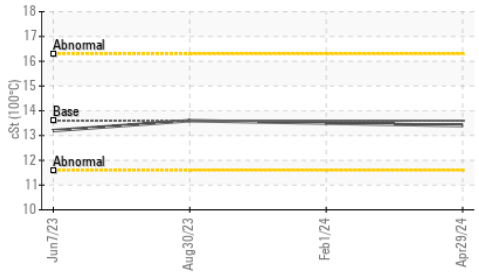
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0911693**	WC0887285	WC0809075
Sample Date		Client Info		**29 Apr 2024**	01 Feb 2024	30 Aug 2023
Machine Age	kms	Client Info		**94450**	72750	49892
Oil Age	kms	Client Info		**10000**	10000	10000
Filter Age	kms	Client Info		**10000**	10000	10000
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>75	**11**	14	15
Chromium	ppm	ASTM D5185(m)	>5	**<1**	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	**0**	<1	0
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	0
Silver	ppm	ASTM D5185(m)	>2	**0**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>15	**2**	2	1
Lead	ppm	ASTM D5185(m)	>25	**0**	0	<1
Copper	ppm	ASTM D5185(m)	>100	**2**	2	6
Tin	ppm	ASTM D5185(m)	>4	**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>25	**2**	4	6
Potassium	ppm	ASTM D5185(m)	>20	**0**	<1	<1
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*	>6	**0.2**	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	**7.5**	8.0	7.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	**19.1**	19.9	21.6
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**4**	5	6
Boron	ppm	ASTM D5185(m)	39	**1**	1	2
Barium	ppm	ASTM D5185(m)	1	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	49	**59**	58	59
Manganese	ppm	ASTM D5185(m)	1	**0**	0	<1
Magnesium	ppm	ASTM D5185(m)	616	**982**	968	989
Calcium	ppm	ASTM D5185(m)	1554	**1057**	1060	1051
Phosphorus	ppm	ASTM D5185(m)	899	**1003**	994	1070
Zinc	ppm	ASTM D5185(m)	1069	**1207**	1184	1196
Sulfur	ppm	ASTM D5185(m)	2624	**2583**	2685	2490
Oxidation	Abs/.1mm	ASTM D7414*	>25	**14.9**	16.0	16.9
Visc @ 100°C	cSt	ASTM D7279(m)	13.6	**13.4**	13.5	13.6

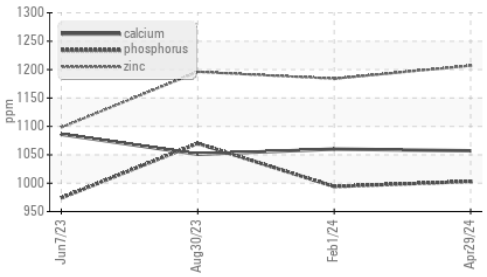
FT-IR (Direct Trend)



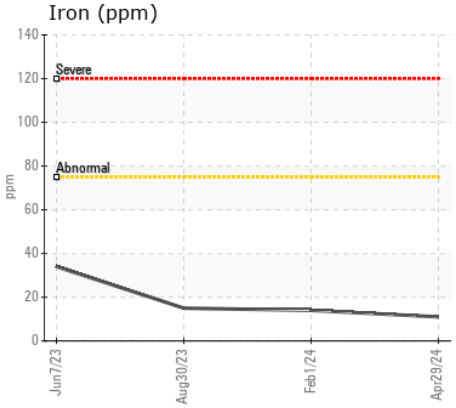
Viscosity @ 100°C



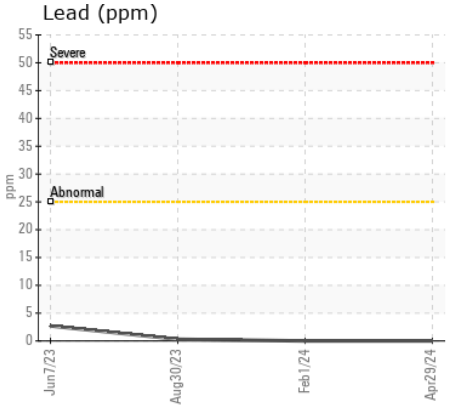
Additives



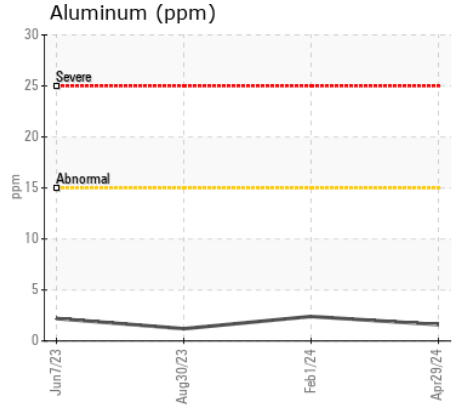
Iron (ppm)



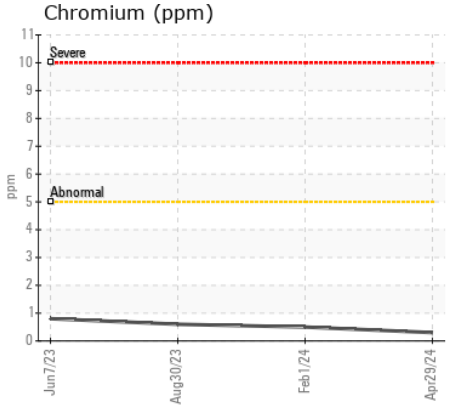
Lead (ppm)



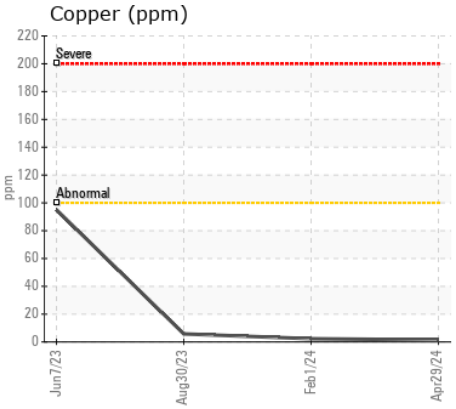
Aluminum (ppm)



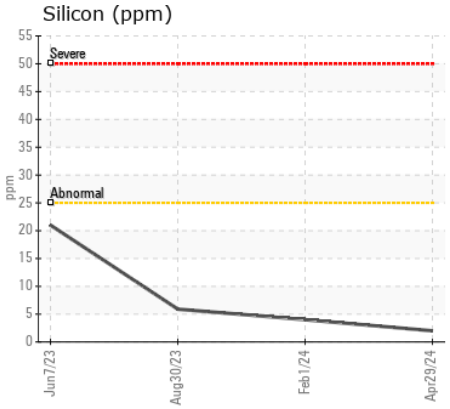
Chromium (ppm)



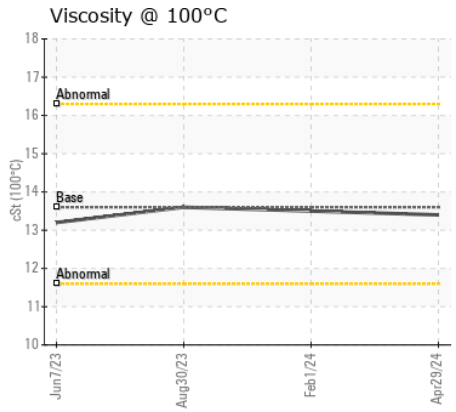
Copper (ppm)



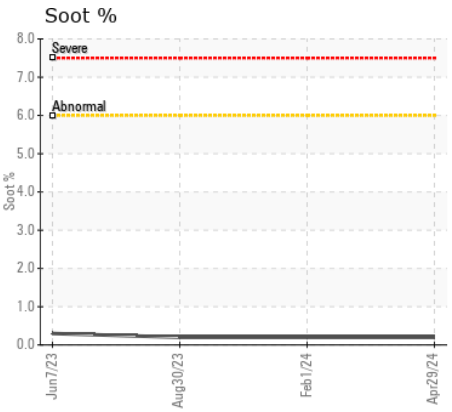
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0911693
Lab Number : 02634073
Unique Number : 5775226
Test Package : MOB 1

Received : 08 May 2024
Tested : 08 May 2024
Diagnosed : 08 May 2024 - Wes Davis

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.

CITY OF PETERBOROUGH
791 WEBBER AVENUE,, MUNICIPAL OPERATIONS CENTRE
PETERBOROUGH, ON
CA K9J 8N3
Contact: Bryan Powers
bpowers@peterborough.ca
T: (705)745-1386
F: (705)743-3223