MOB I

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
20-21
Component
Diesel Engine
Fluid
CHEVRON DELO 400 LE 15W40 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

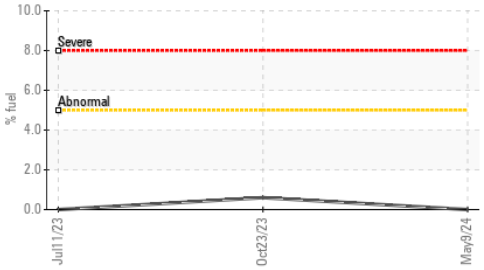
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

FLUID CONDITION

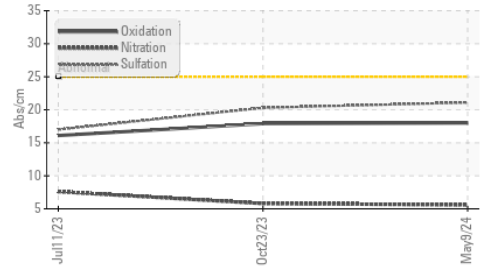
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0645965**	WC0645966	WC0645967
Sample Date		Client Info		**09 May 2024**	23 Oct 2023	11 Jul 2023
Machine Age	hrs	Client Info		**997**	501	221
Oil Age	hrs	Client Info		**249**	250	221
Filter Age	hrs	Client Info		**249**	250	221
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>150	**8**	11	16
Chromium	ppm	ASTM D5185(m)	>20	**<1**	<1	2
Nickel	ppm	ASTM D5185(m)	>2	**<1**	0	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	0
Silver	ppm	ASTM D5185(m)	>2	**0**	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	**1**	2	3
Lead	ppm	ASTM D5185(m)	>40	**0**	<1	1
Copper	ppm	ASTM D5185(m)	>30	**<1**	2	6
Tin	ppm	ASTM D5185(m)	>15	**0**	0	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>25	**3**	6	12
Potassium	ppm	ASTM D5185(m)	>20	**<1**	<1	2
Fuel	%	ASTM D7593*	>5	**0.0**	0.6	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	ASTM D7844*	>3	**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**5.6**	5.8	7.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	**21.1**	20.3	17.0
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**2**	2	3
Boron	ppm	ASTM D5185(m)		**43**	42	95
Barium	ppm	ASTM D5185(m)		**0**	<1	<1
Molybdenum	ppm	ASTM D5185(m)		**43**	47	41
Manganese	ppm	ASTM D5185(m)		**<1**	0	2
Magnesium	ppm	ASTM D5185(m)		**482**	550	901
Calcium	ppm	ASTM D5185(m)		**1610**	1550	1166
Phosphorus	ppm	ASTM D5185(m)	1200	**721**	742	772
Zinc	ppm	ASTM D5185(m)	1300	**828**	846	840
Sulfur	ppm	ASTM D5185(m)	3200	**2002**	2106	2240
Oxidation	Abs/.1mm	ASTM D7414*	>25	**18.0**	17.9	16.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	**12.2**	11.9	13.4

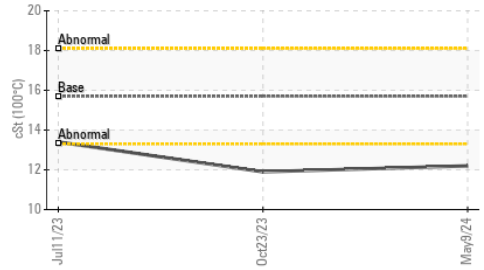
Fuel Dilution



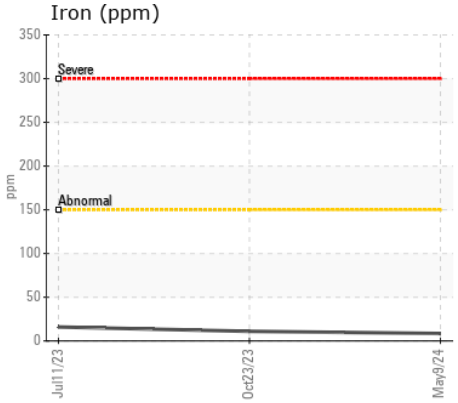
FT-IR (Direct Trend)



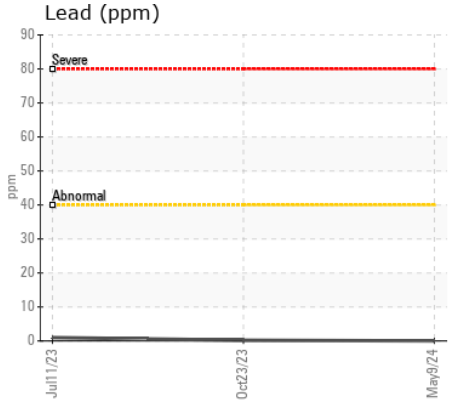
Viscosity @ 100°C



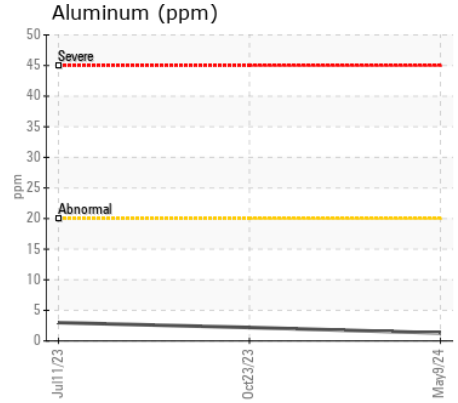
Iron (ppm)



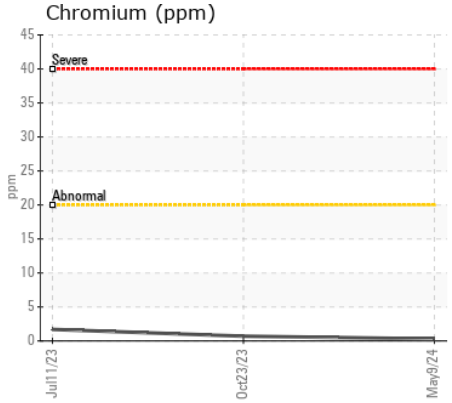
Lead (ppm)



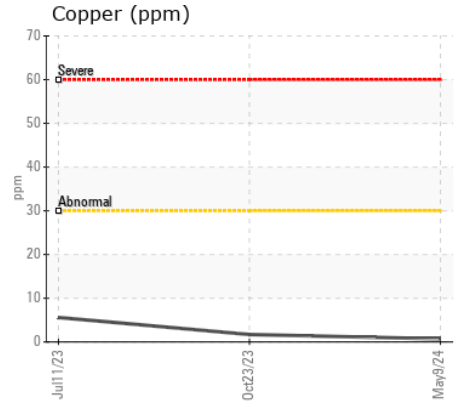
Aluminum (ppm)



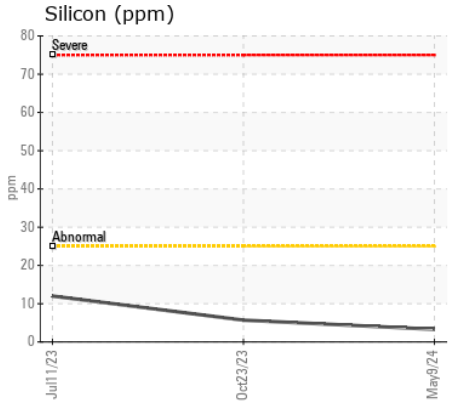
Chromium (ppm)



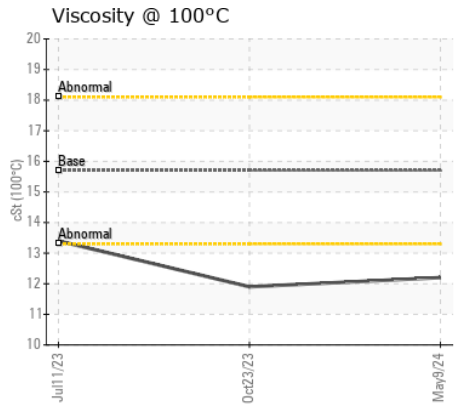
Copper (ppm)



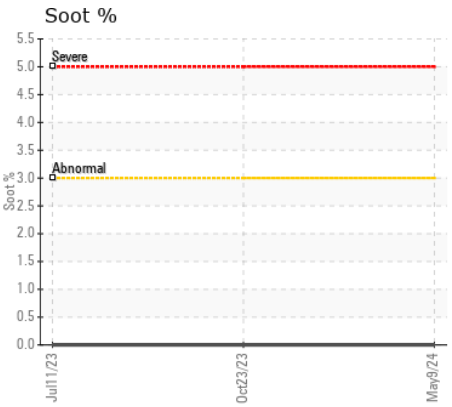
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0645965
Lab Number : 02635946
Unique Number : 5785108
Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel)

Received : 16 May 2024
Tested : 21 May 2024
Diagnosed : 21 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.

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