MOB WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FORD TW20 TW20
Component
Diesel Engine
Fluid
KLONDIKE HEAVY DUTY 15W40 (12 LTR)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

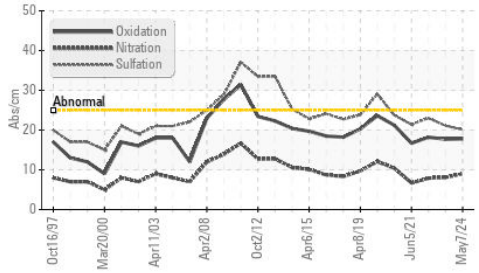
There is no indication of any contamination in the oil.

FLUID CONDITION

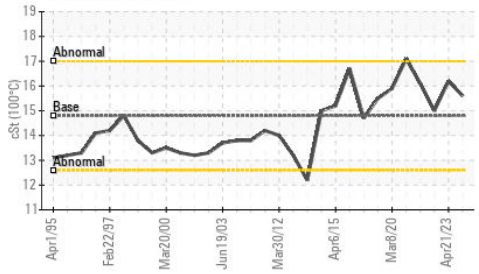
Additive levels indicate the addition of a different brand, or type of oil.
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0900950**	WC0740331	WC0680727
Sample Date		Client Info		**07 May 2024**	21 Apr 2023	31 Mar 2022
Machine Age	hrs	Client Info		**8506**	8385	1413
Oil Age	hrs	Client Info		**121**	105	107
Filter Age	hrs	Client Info		**121**	105	107
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>100	**11**	8	8
Chromium	ppm	ASTM D5185(m)	>20	**<1**	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	**<1**	<1	0
Titanium	ppm	ASTM D5185(m)	>2	**0**	<1	0
Silver	ppm	ASTM D5185(m)	>2	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>25	**1**	1	1
Lead	ppm	ASTM D5185(m)	>40	**2**	2	3
Copper	ppm	ASTM D5185(m)	>330	**1**	1	4
Tin	ppm	ASTM D5185(m)	>15	**1**	1	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>25	**2**	2	3
Potassium	ppm	ASTM D5185(m)	>20	**<1**	5	7
Fuel		WC Method	>5	**<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*	>3	**0.1**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**9.0**	8.1	7.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	**20.1**	21.1	23.0
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**2**	3	3
Boron	ppm	ASTM D5185(m)	70	**17**	131	174
Barium	ppm	ASTM D5185(m)		**0**	0	<1
Molybdenum	ppm	ASTM D5185(m)		**57**	11	<1
Manganese	ppm	ASTM D5185(m)		**<1**	<1	1
Magnesium	ppm	ASTM D5185(m)	50	**965**	147	12
Calcium	ppm	ASTM D5185(m)	2000	**1225**	2053	2149
Phosphorus	ppm	ASTM D5185(m)	1000	**980**	967	960
Zinc	ppm	ASTM D5185(m)	1100	**1247**	1098	1122
Sulfur	ppm	ASTM D5185(m)	3400	**2579**	2792	2885
Oxidation	Abs/.1mm	ASTM D7414*	>25	**17.8**	17.7	18.2
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	**15.6**	16.2	15.0

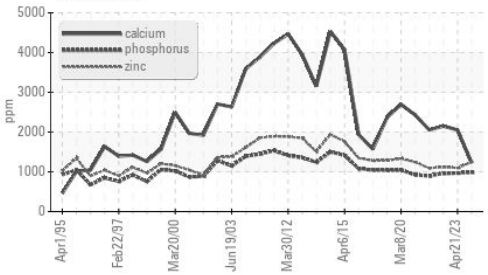
FT-IR (Direct Trend)



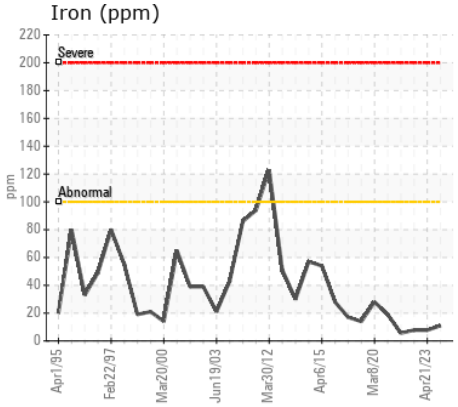
Viscosity @ 100°C



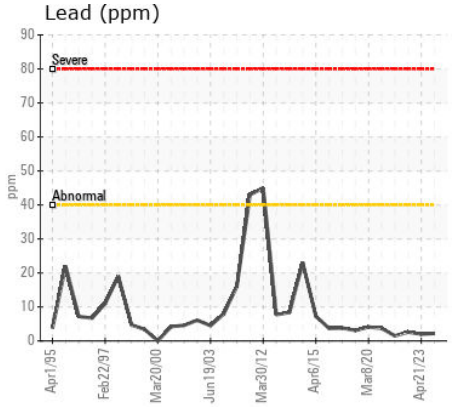
Additives



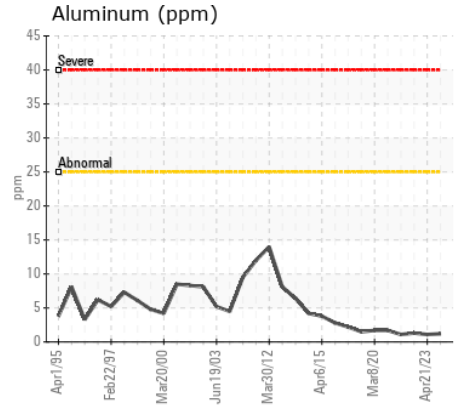
Iron (ppm)



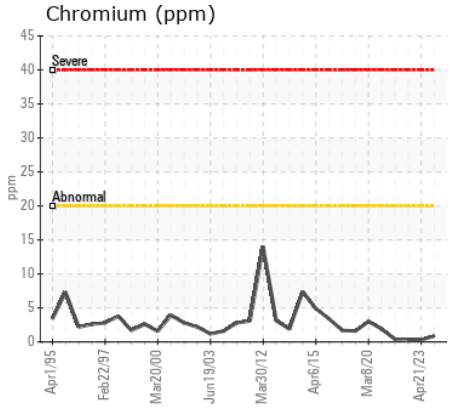
Lead (ppm)



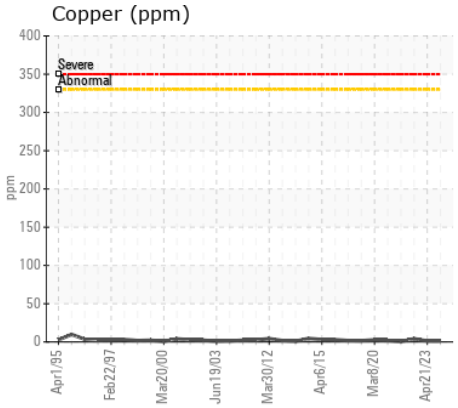
Aluminum (ppm)



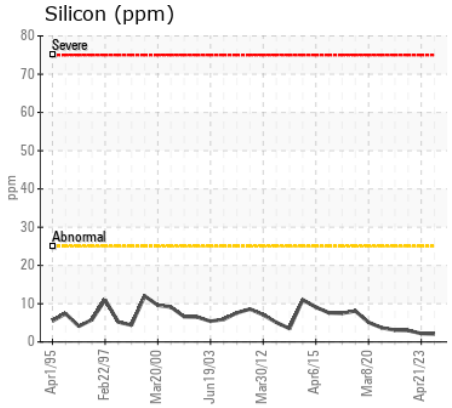
Chromium (ppm)



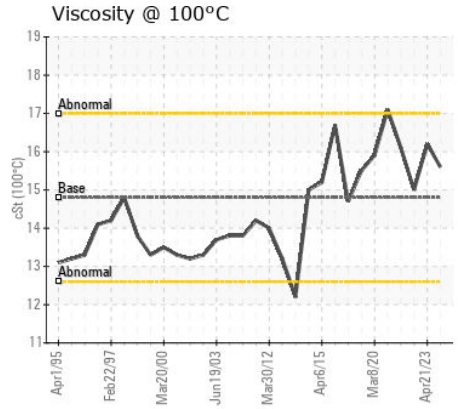
Copper (ppm)



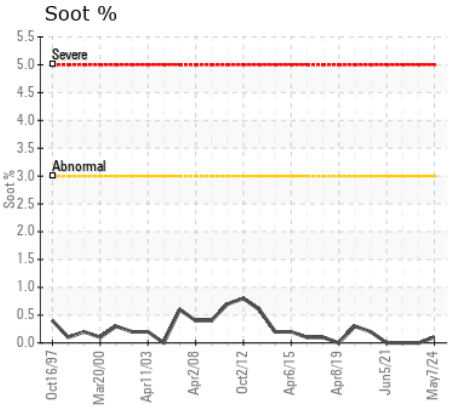
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0900950
Lab Number : 02645097
Unique Number : 5802636
Test Package : MOB 1

Received : 02 Jul 2024
Tested : 02 Jul 2024
Diagnosed : 02 Jul 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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