MOB I

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CATERPILLAR 14234 STEELES
Component
Diesel Engine
Fluid
TOTAL FINA RUBIA TIR 7900 15W40 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

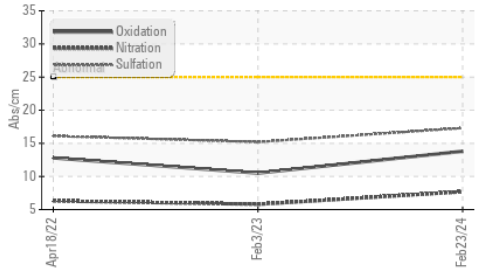
Insufficient sample was received to conduct all the routine laboratory tests.

FLUID CONDITION

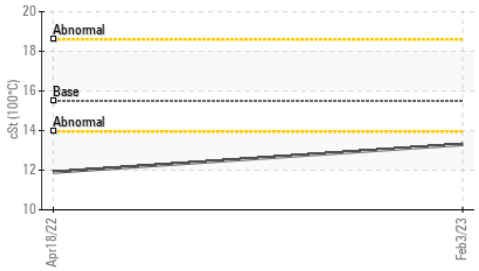
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0888827**	WC0787159	WC0665478
Sample Date		Client Info		**23 Feb 2024**	03 Feb 2023	18 Apr 2022
Machine Age	hrs	Client Info		**432**	399	484
Oil Age	hrs	Client Info		**33**	0	0
Filter Age	hrs	Client Info		**33**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	MARGINAL
Iron	ppm	ASTM D5185(m)	>100	**3**	3	2
Chromium	ppm	ASTM D5185(m)	>20	**0**	0	0
Nickel	ppm	ASTM D5185(m)	>2	**<1**	0	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	<1
Silver	ppm	ASTM D5185(m)	>2	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>25	**2**	2	1
Lead	ppm	ASTM D5185(m)	>40	**0**	0	2
Copper	ppm	ASTM D5185(m)	>330	**1**	<1	4
Tin	ppm	ASTM D5185(m)	>15	**0**	0	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>25	**2**	3	3
Potassium	ppm	ASTM D5185(m)	>20	**1**	<1	<1
Fuel		WC Method	>5	**<1.0**	<1.0	▲ 2.7
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	**7.7**	5.8	6.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	**17.3**	15.2	16.1
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**2**	2	2
Boron	ppm	ASTM D5185(m)		**80**	43	55
Barium	ppm	ASTM D5185(m)		**0**	<1	0
Molybdenum	ppm	ASTM D5185(m)		**78**	47	14
Manganese	ppm	ASTM D5185(m)		**0**	<1	<1
Magnesium	ppm	ASTM D5185(m)		**21**	100	200
Calcium	ppm	ASTM D5185(m)	3290	**2283**	2214	2123
Phosphorus	ppm	ASTM D5185(m)	1200	**996**	1076	1009
Zinc	ppm	ASTM D5185(m)	1400	**1126**	1102	1074
Sulfur	ppm	ASTM D5185(m)	4000	**3047**	2973	2413
Oxidation	Abs/.1mm	ASTM D7414*	>25	**13.8**	10.5	12.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	**---**	13.3	11.9

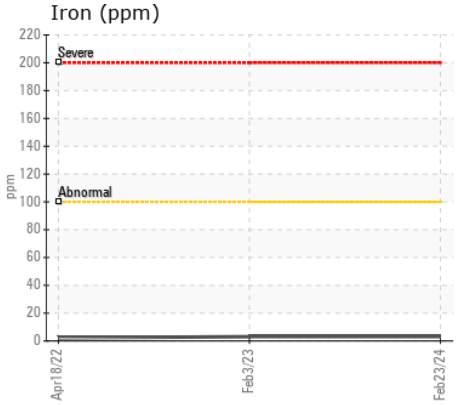
FT-IR (Direct Trend)



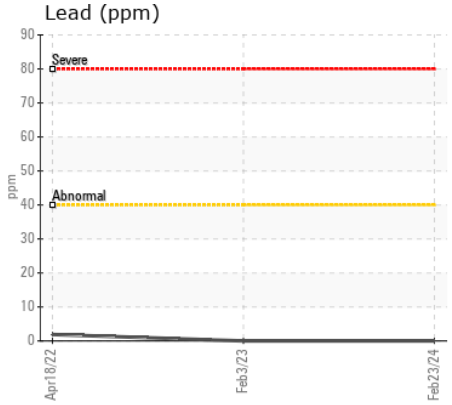
Viscosity @ 100°C



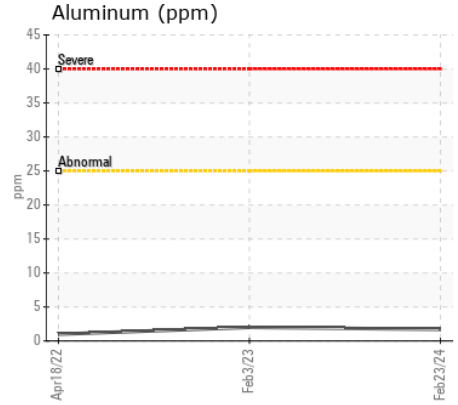
Iron (ppm)



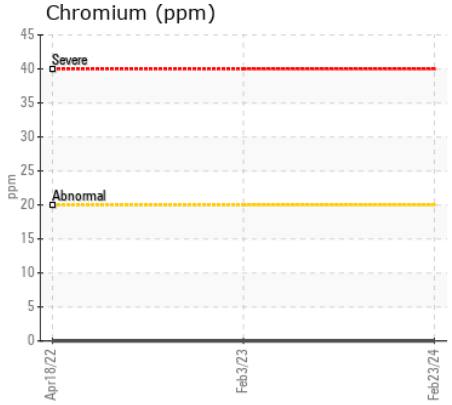
Lead (ppm)



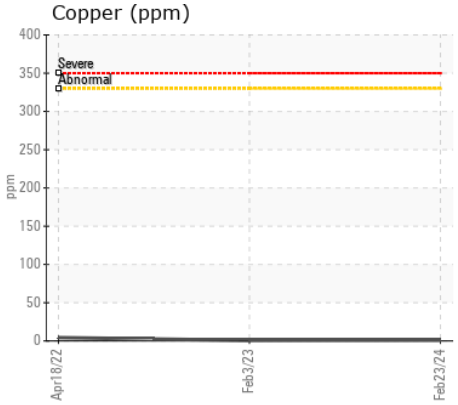
Aluminum (ppm)



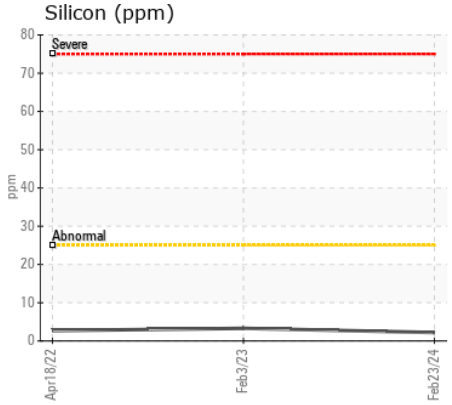
Chromium (ppm)



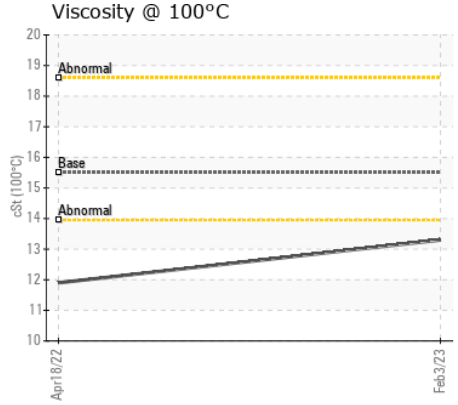
Copper (ppm)



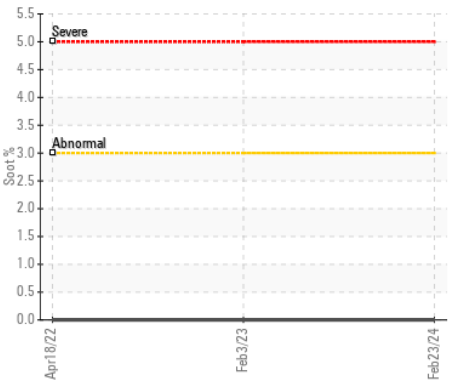
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: WC0888827	**Received**	: 15 Apr 2024
Lab Number	: 02628797	**Tested**	: 18 Apr 2024
Unique Number	: 5761929	**Diagnosed**	: 18 Apr 2024 - Kevin Marson
Test Package	: MOB 1		

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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