MOB I WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2175 PROVIDENCE
Component
Diesel Engine
Fluid
TOTAL FINA RUBIA TIR 7900 FE 10W30 (--- LTR)

RECOMMENDATION

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

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

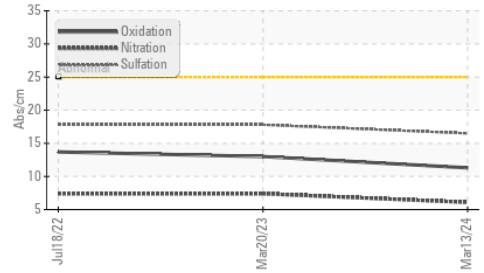
There is no indication of any contamination in the oil.

FLUID CONDITION

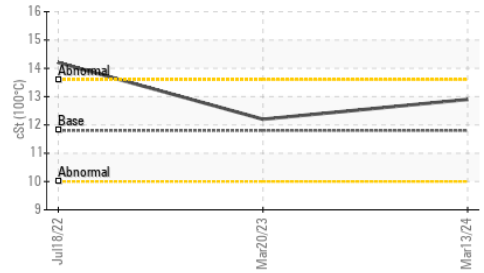
Additive levels indicate the addition of a different brand, or type of oil.
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0888769**	WC0787124	WC0665512
Sample Date		Client Info		**13 Mar 2024**	20 Mar 2023	18 Jul 2022
Machine Age	hrs	Client Info		**585**	567	551
Oil Age	hrs	Client Info		**18**	0	0
Filter Age	hrs	Client Info		**18**	0	0
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	**2**	4	3
Chromium	ppm	ASTM D5185(m)	>20	**0**	0	0
Nickel	ppm	ASTM D5185(m)	>2	**<1**	<1	0
Titanium	ppm	ASTM D5185(m)	>2	**0**	<1	<1
Silver	ppm	ASTM D5185(m)	>2	**0**	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	**2**	2	2
Lead	ppm	ASTM D5185(m)	>40	**<1**	3	<1
Copper	ppm	ASTM D5185(m)	>330	**<1**	<1	2
Tin	ppm	ASTM D5185(m)	>15	**<1**	1	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
White Metal	scalar	Visual*	NONE	**NONE**	---	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	---	---
Silicon	ppm	ASTM D5185(m)	>25	**4**	7	5
Potassium	ppm	ASTM D5185(m)	>20	**<1**	2	<1
Fuel		WC Method	>5	**<1.0**	<1.0	<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	**6.1**	7.4	7.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	**16.5**	17.8	17.8
Silt	scalar	Visual*	NONE	**NONE**	---	---
Debris	scalar	Visual*	NONE	**VLITE**	---	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	---	---
Appearance	scalar	Visual*	NORML	**NORML**	---	---
Odor	scalar	Visual*	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**4**	10	3
Boron	ppm	ASTM D5185(m)		**16**	59	66
Barium	ppm	ASTM D5185(m)		**0**	0	0
Molybdenum	ppm	ASTM D5185(m)		**6**	24	70
Manganese	ppm	ASTM D5185(m)		**0**	<1	<1
Magnesium	ppm	ASTM D5185(m)		**125**	433	126
Calcium	ppm	ASTM D5185(m)	3290	**1377**	1707	2097
Phosphorus	ppm	ASTM D5185(m)	1200	**397**	797	1062
Zinc	ppm	ASTM D5185(m)	1400	**448**	827	1118
Sulfur	ppm	ASTM D5185(m)	4000	**2290**	2869	3030
Oxidation	Abs/.1mm	ASTM D7414*	>25	**11.3**	13.0	13.7
Visc @ 100°C	cSt	ASTM D7279(m)	11.8	**12.9**	12.2	14.2

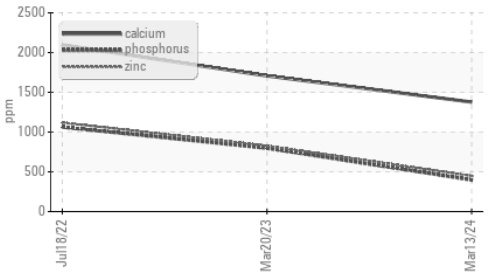
FT-IR (Direct Trend)



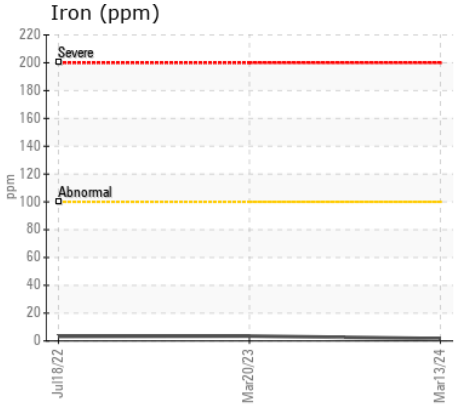
Viscosity @ 100°C



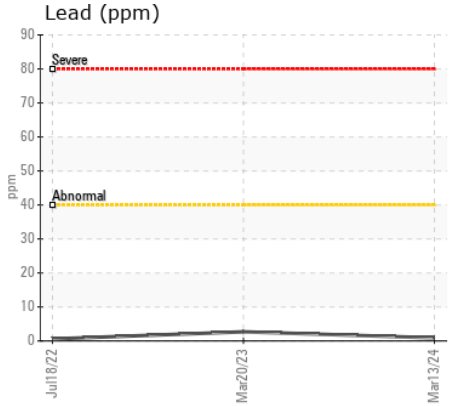
Additives



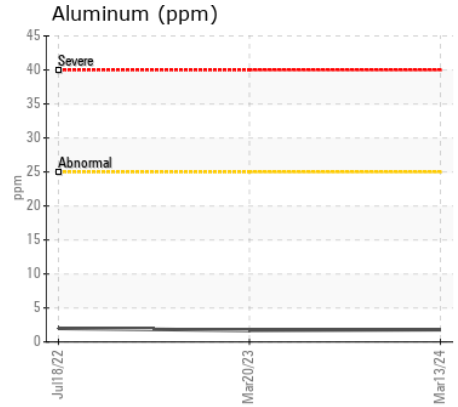
Iron (ppm)



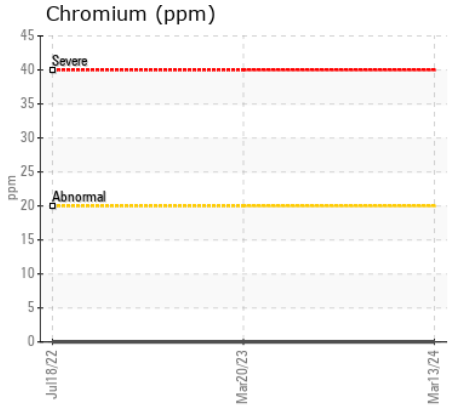
Lead (ppm)



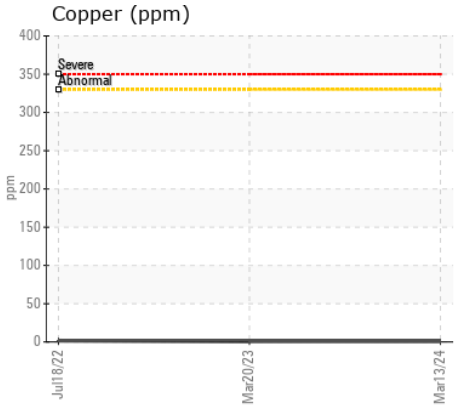
Aluminum (ppm)



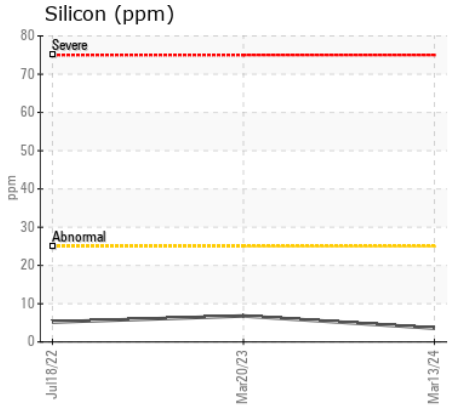
Chromium (ppm)



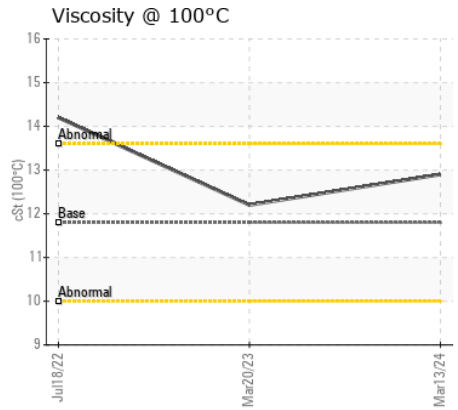
Copper (ppm)



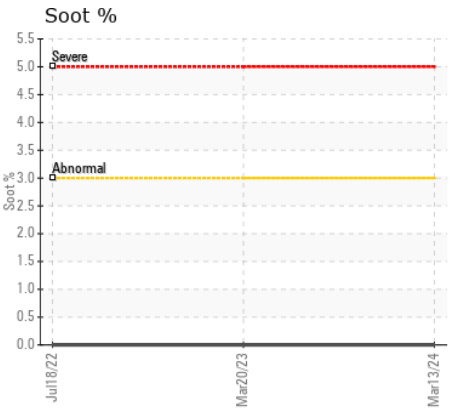
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: WC0888769	**Received**	: 15 Apr 2024
Lab Number	: 02628735	**Tested**	: 16 Apr 2024
Unique Number	: 5761867	**Diagnosed**	: 16 Apr 2024 - Kevin Marson
Test Package	: MOB 1 (Additional Tests: Visual)		

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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