



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
LINKBELT C2101 LOWER
Component
Front Diesel Engine
Fluid
SHELL ROTELLA T4 15W40 (19 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0909745	WC0801675	WC0642473
Sample Date		Client Info		10 Apr 2024	09 May 2023	15 Feb 2022
Machine Age	hrs	Client Info		3623	3336	3125
Oil Age	hrs	Client Info		250	250	258
Filter Age	hrs	Client Info		250	250	258
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	15	15	11
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	2
Lead	ppm	ASTM D5185m	>150	1	<1	<1
Copper	ppm	ASTM D5185m	>90	4	4	3
Tin	ppm	ASTM D5185m	>5	0	<1	1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

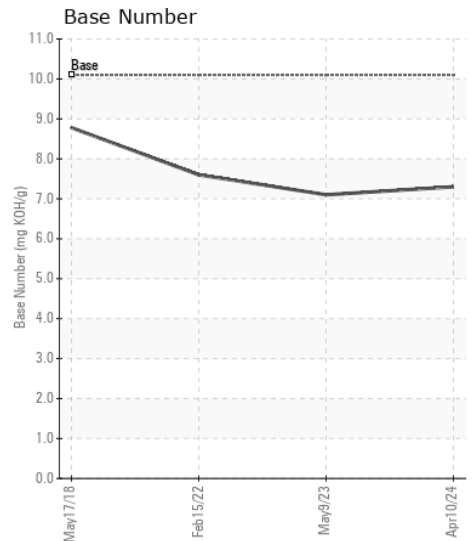
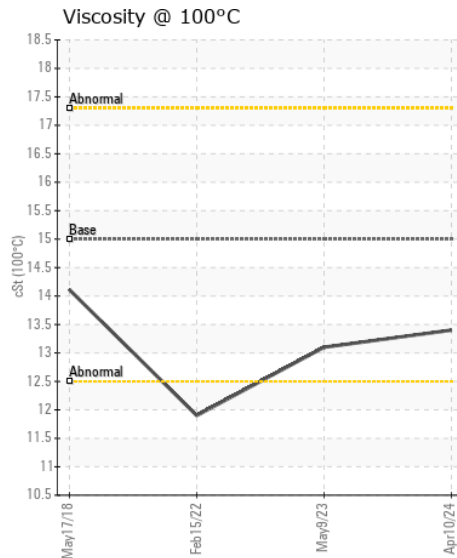
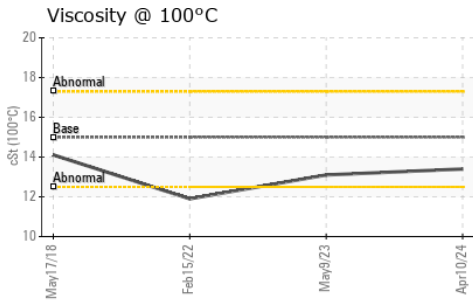
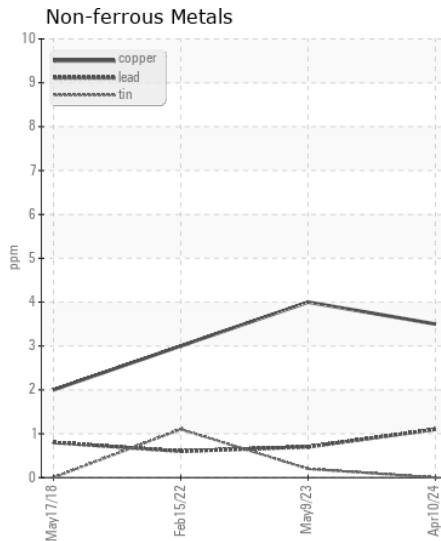
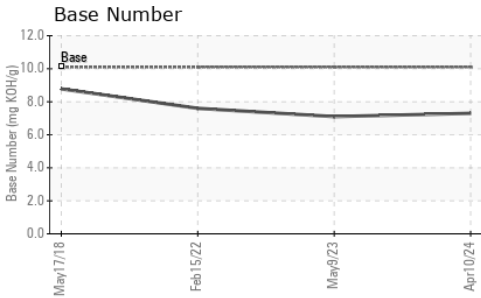
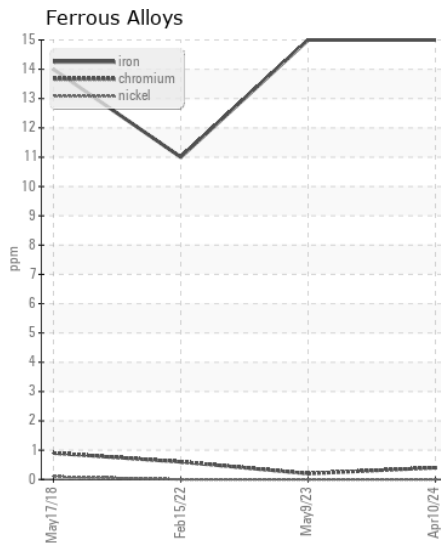
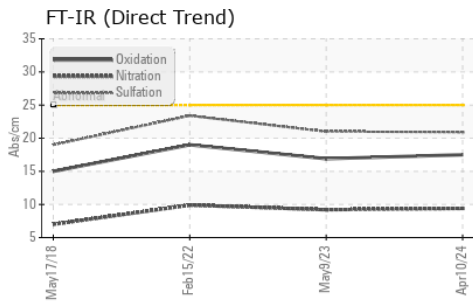
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	5	6	6
Potassium	ppm	ASTM D5185m	>20	9	8	8
Fuel		WC Method	>3.0	<1.0	<1.0	0.1
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	0.2	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.2	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	21.0	23.4
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		3	3	1
Boron	ppm	ASTM D5185m		131	133	159
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		16	27	5
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		67	49	48
Calcium	ppm	ASTM D5185m		2133	2168	2151
Phosphorus	ppm	ASTM D5185m		936	995	953
Zinc	ppm	ASTM D5185m		1099	1225	1160
Sulfur	ppm	ASTM D5185m		3709	3958	2991
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	16.9	19.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	7.3	7.1	7.6
Visc @ 100°C	cSt	ASTM D445	15	13.4	13.1	11.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0909745
Lab Number : 06151546
Unique Number : 10981624
Test Package : FLEET

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)