OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
5026
Component
Diesel Engine
Fluid
SHELL ROTELLA T4 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

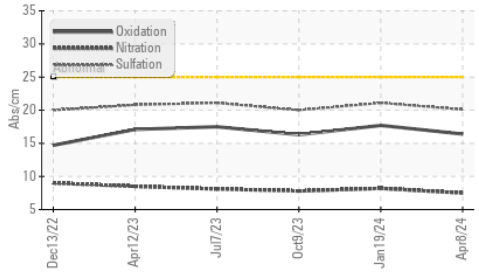
There is no indication of any contamination in the oil.

FLUID CONDITION

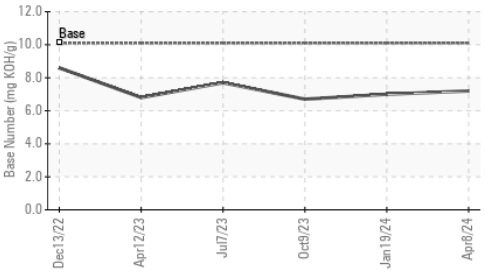
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0909748**	WC0866871	WC0831944
Sample Date		Client Info		**08 Apr 2024**	19 Jan 2024	09 Oct 2023
Machine Age	hrs	Client Info		**1940**	1685	1303
Oil Age	hrs	Client Info		**250**	250	250
Filter Age	hrs	Client Info		**250**	250	250
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	**6**	10	13
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>4	**<1**	<1	0
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m	>3	**0**	0	<1
Aluminum	ppm	ASTM D5185m	>20	**1**	2	3
Lead	ppm	ASTM D5185m	>40	**1**	<1	<1
Copper	ppm	ASTM D5185m	>330	**<1**	1	2
Tin	ppm	ASTM D5185m	>15	**<1**	<1	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	<1
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	**5**	5	9
Potassium	ppm	ASTM D5185m	>20	**6**	8	10
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	**0.2**	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	**7.5**	8.2	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	**20.1**	21.1	20.0
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
Sodium	ppm	ASTM D5185m		**2**	0	2
Boron	ppm	ASTM D5185m		**126**	150	128
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**10**	8	15
Manganese	ppm	ASTM D5185m		**<1**	0	<1
Magnesium	ppm	ASTM D5185m		**35**	40	87
Calcium	ppm	ASTM D5185m		**2331**	1997	2011
Phosphorus	ppm	ASTM D5185m		**1006**	875	932
Zinc	ppm	ASTM D5185m		**1197**	1133	1191
Sulfur	ppm	ASTM D5185m		**4163**	3338	3287
Oxidation	Abs/.1mm	*ASTM D7414	>25	**16.4**	17.7	16.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	**7.2**	7.0	6.7
Visc @ 100°C	cSt	ASTM D445	15	**13.3**	13.4	13.5

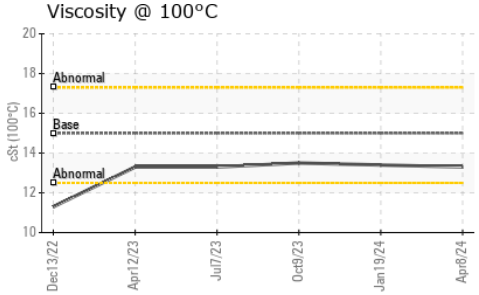
FT-IR (Direct Trend)



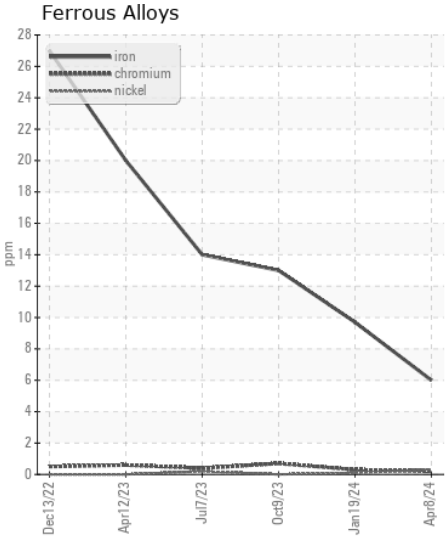
Base Number



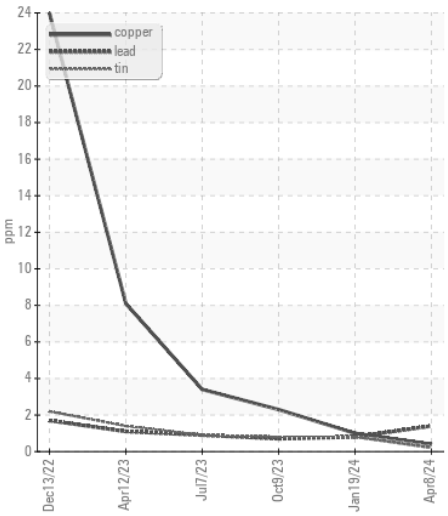
Viscosity @ 100°C



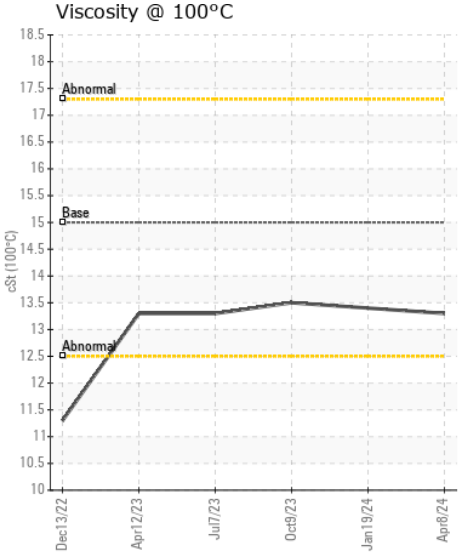
Ferrous Alloys



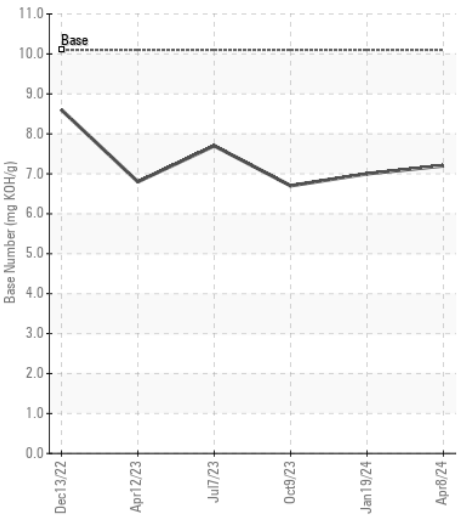
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: WC0909748	**Received**	: 11 Apr 2024
Lab Number	: 06145619	**Tested**	: 12 Apr 2024
Unique Number	: 10970427	**Diagnosed**	: 12 Apr 2024 - Wes Davis
Test Package	: FLEET		

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)

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