OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
9241
Component
Diesel Engine
Fluid
SHELL ROTELLA T 15W40 (--- QTS)

RECOMMENDATION

No corrective action is recommended at this time. 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

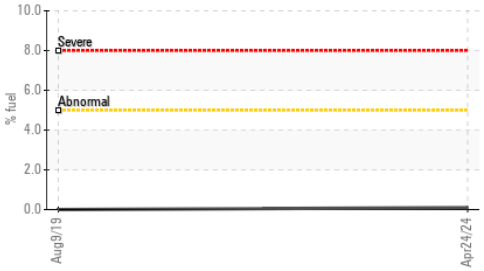
Fuel content negligible. There is no indication of any contamination in the oil.

FLUID CONDITION

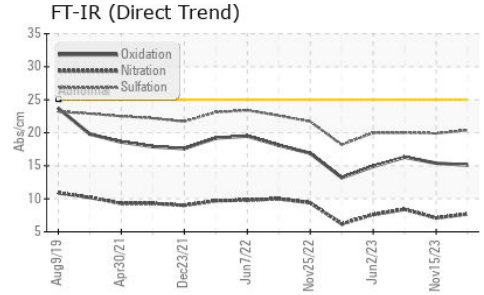
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0904973**	WC0857649	WC0817778
Sample Date		Client Info		**24 Apr 2024**	15 Nov 2023	08 Sep 2023
Machine Age	mls	Client Info		**0**	435169	413028
Oil Age	mls	Client Info		**0**	0	14126
Filter Age	mls	Client Info		**0**	0	14126
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	**27**	6	10
Chromium	ppm	ASTM D5185m	>20	**2**	<1	1
Nickel	ppm	ASTM D5185m	>4	**2**	0	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**11**	4	6
Lead	ppm	ASTM D5185m	>40	**<1**	0	0
Copper	ppm	ASTM D5185m	>330	**6**	4	4
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	**8**	4	5
Potassium	ppm	ASTM D5185m	>20	**3**	<1	1
Fuel	%	ASTM D3524	>5	**0.1**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	*ASTM D7844	>3	**0.4**	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	**7.7**	7.1	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	**20.4**	19.9	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		**0**	1	2
Boron	ppm	ASTM D5185m	316	**194**	2	2
Barium	ppm	ASTM D5185m	0.0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	1.2	**84**	60	61
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	24	**457**	981	932
Calcium	ppm	ASTM D5185m	2292	**1308**	1111	1061
Phosphorus	ppm	ASTM D5185m	1064	**943**	947	994
Zinc	ppm	ASTM D5185m	1160	**1127**	1294	1255
Sulfur	ppm	ASTM D5185m	4996	**3580**	3215	3234
Oxidation	Abs/.1mm	*ASTM D7414	>25	**15.1**	15.4	16.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	**6.7**	9.8	9.0
Visc @ 100°C	cSt	ASTM D445	15.7	**12.4**	13.7	13.7

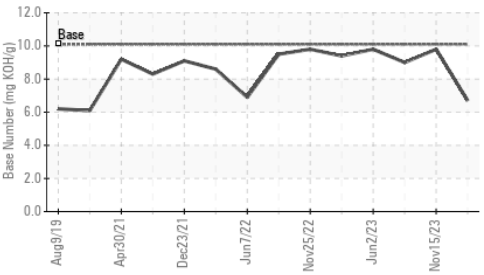
Fuel Dilution



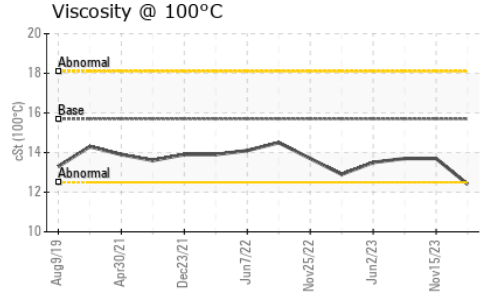
FT-IR (Direct Trend)



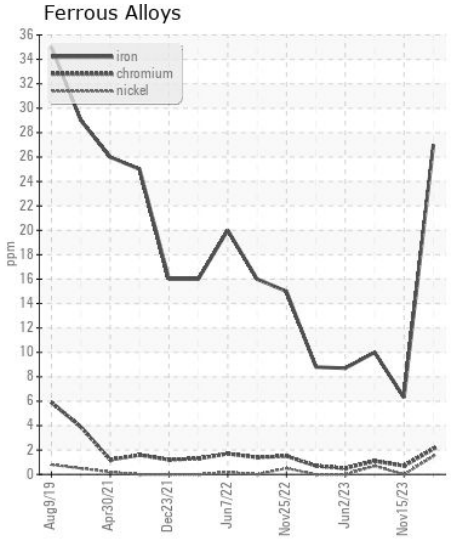
Base Number



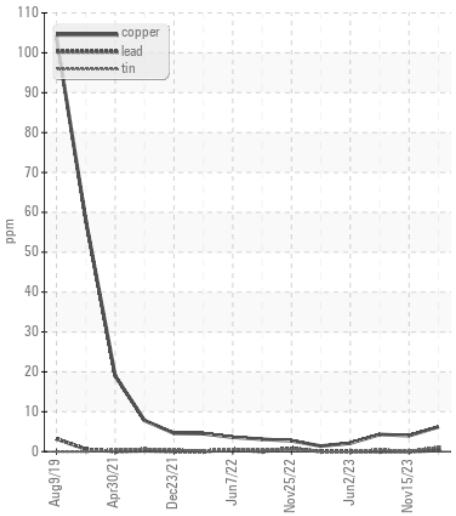
Viscosity @ 100°C



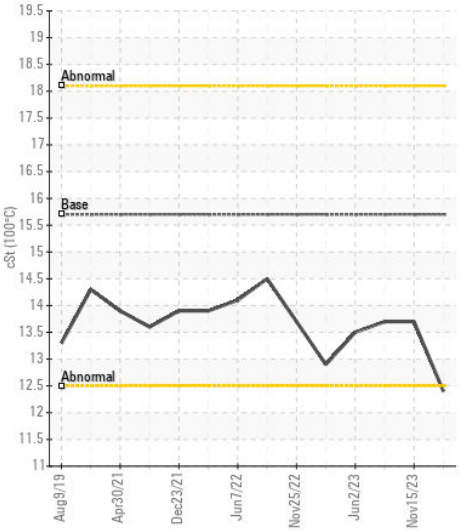
Ferrous Alloys



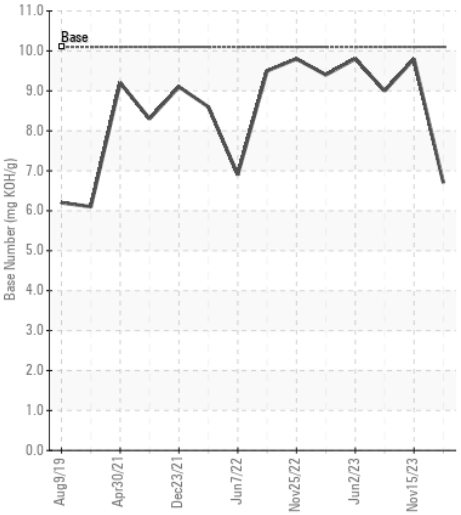
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0904973
Lab Number : 06178217
Unique Number : 11029543
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Received : 13 May 2024
Tested : 16 May 2024
Diagnosed : 16 May 2024 - Wes Davis

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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