OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KENWORTH T880 RO-10 (S/N 259573)
Component
Diesel Engine
Fluid
VALVOLINE PREMIUM BLUE (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

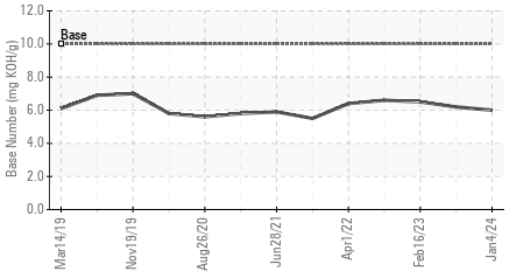
There is no indication of any contamination in the oil.

FLUID CONDITION

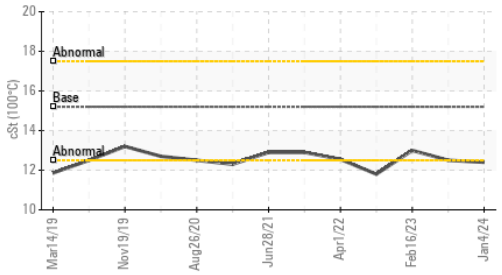
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0849042	WC0793094	WC0731587
Sample Date		Client Info		04 Jan 2024	21 Jul 2023	16 Feb 2023
Machine Age	hrs	Client Info		12725	11707	10701
Oil Age	hrs	Client Info		1018	1006	1028
Filter Age	hrs	Client Info		1018	1006	1028
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>165	18	18	21
Chromium	ppm	ASTM D5185m	>5	<1	1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	3	4
Lead	ppm	ASTM D5185m	>150	5	2	2
Copper	ppm	ASTM D5185m	>90	1	<1	2
Tin	ppm	ASTM D5185m	>5	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>35	6	5	6
Potassium	ppm	ASTM D5185m	>20	13	6	9
Fuel	%	ASTM D3524	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	0.7	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	10.9	11.2	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	22.2	22.8
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	4	4
Boron	ppm	ASTM D5185m	2.9	27	28	33
Barium	ppm	ASTM D5185m	0.1	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	96	66	62
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	18	686	714	685
Calcium	ppm	ASTM D5185m	2936	1168	1264	1328
Phosphorus	ppm	ASTM D5185m	998	709	700	655
Zinc	ppm	ASTM D5185m	1095	846	921	911
Sulfur	ppm	ASTM D5185m	5469	2167	2856	2566
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	20.1	20.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.0	6.0	6.2	6.5
Visc @ 100°C	cSt	ASTM D445	15.2	12.4	12.5	13.0

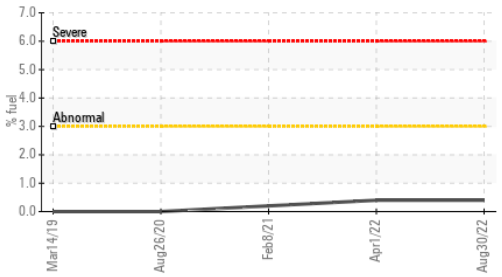
Base Number



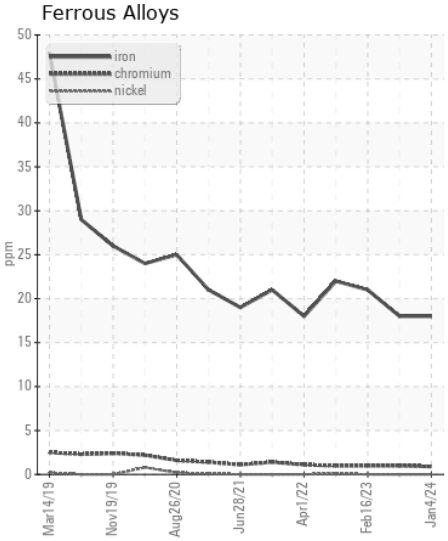
Viscosity @ 100°C



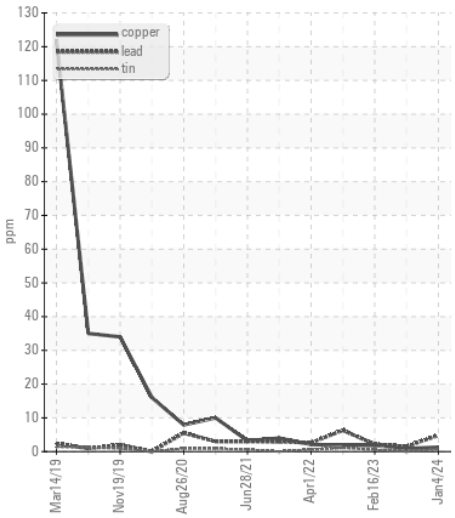
Fuel Dilution



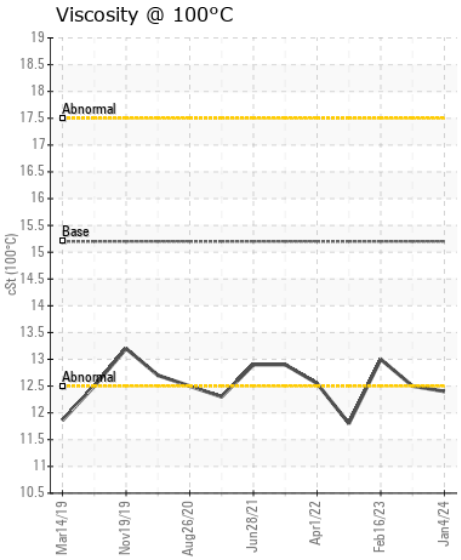
Ferrous Alloys



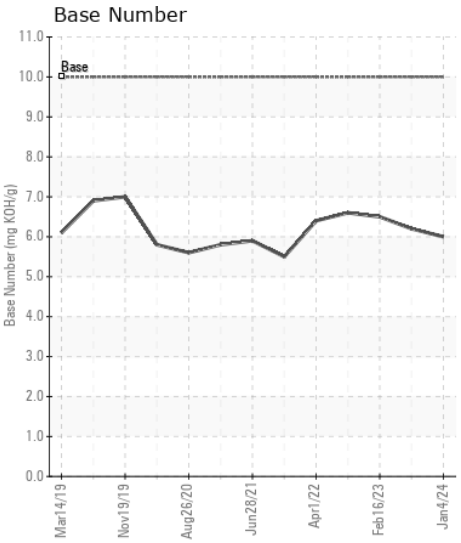
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0849042 **Recieved** : 11 Jan 2024
Lab Number : 06058680 **Diagnosed** : 15 Jan 2024
Unique Number : 10830062 **Diagnostician** : Jonathan Hester
Test Package : CONST (Additional Tests: FUELDILUTION, TBN)

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)

TULLY CONSTRUCTION BOULEVARD
127-50 NORTHERN BLVD
FLUSHING, NY
US 11368
Contact: MATT FLYNN
Mflynn@tullyconstruction.com
T: (917)299-4960
F: