CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
KENWORTH T880 R06 (S/N 431402)
Component
Diesel Engine
Fluid
VALVOLINE PREMIUM BLUE (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

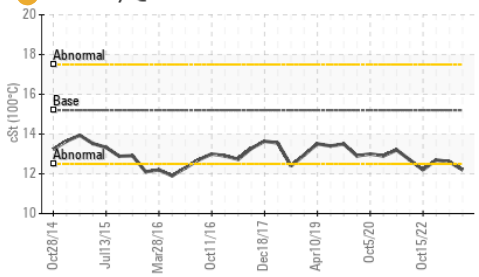
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

FLUID CONDITION

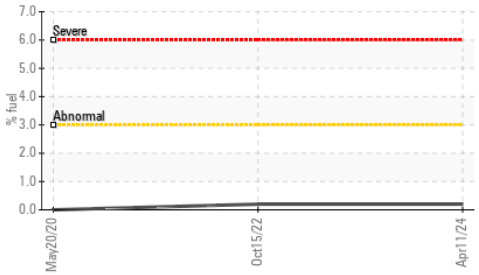
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0885555	WC0849052	WC0793083
Sample Date		Client Info		11 Apr 2024	19 Sep 2023	08 Mar 2023
Machine Age	hrs	Client Info		27499	26495	25494
Oil Age	hrs	Client Info		1004	1001	950
Filter Age	hrs	Client Info		1004	1001	950
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>165	28	33	26
Chromium	ppm	ASTM D5185m	>5	<1	1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	3
Lead	ppm	ASTM D5185m	>150	6	4	7
Copper	ppm	ASTM D5185m	>90	2	2	3
Tin	ppm	ASTM D5185m	>5	<1	<1	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	7	11
Potassium	ppm	ASTM D5185m	>20	4	2	5
Fuel	%	ASTM D3524	>3.0	0.2	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	1.1	0.8	0.7
Nitration	Abs/cm	*ASTM D7624	>20	12.4	11.9	12.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	23.2	23.0
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		4	3	4
Boron	ppm	ASTM D5185m	2.9	29	31	35
Barium	ppm	ASTM D5185m	0.1	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	59	72	69
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	18	657	790	953
Calcium	ppm	ASTM D5185m	2936	1112	1294	1536
Phosphorus	ppm	ASTM D5185m	998	694	686	794
Zinc	ppm	ASTM D5185m	1095	840	899	1067
Sulfur	ppm	ASTM D5185m	5469	2883	2807	3088
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.9	21.2	21.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.0	5.7	5.8	6.4
Visc @ 100°C	cSt	ASTM D445	15.2	12.2	12.6	12.7

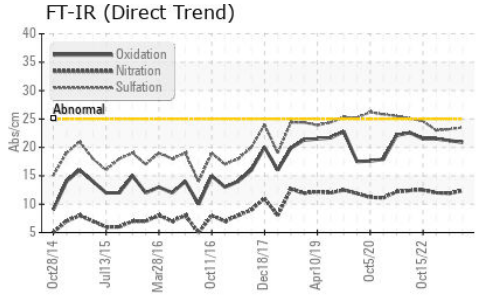
Viscosity @ 100°C



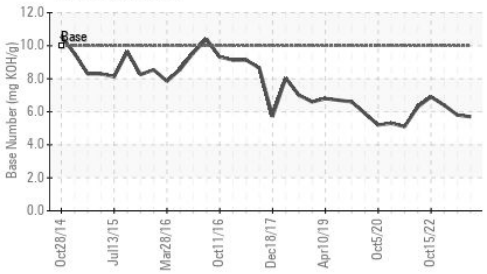
Fuel Dilution



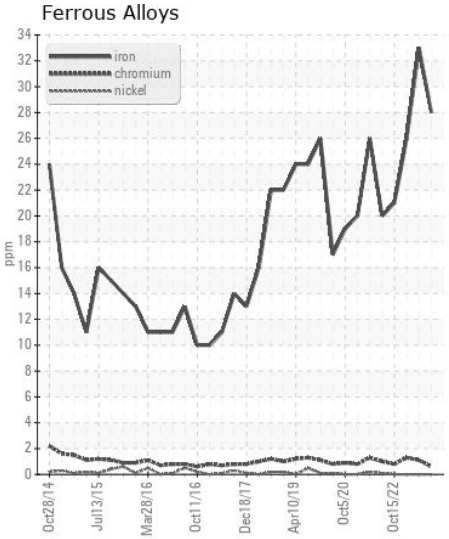
FT-IR (Direct Trend)



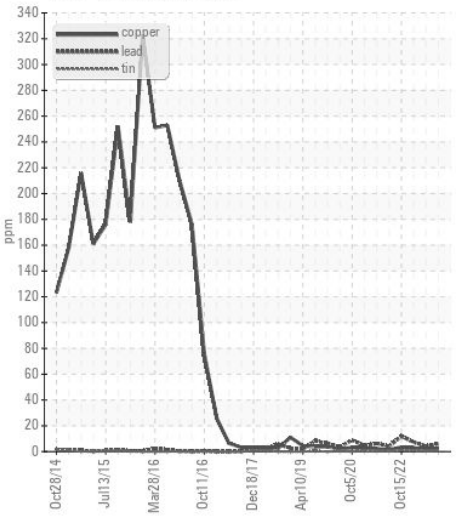
Base Number



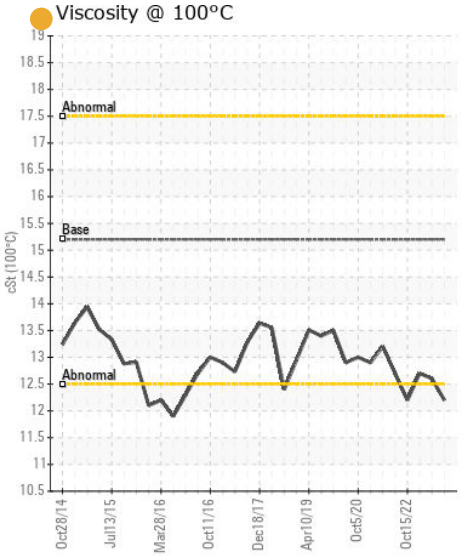
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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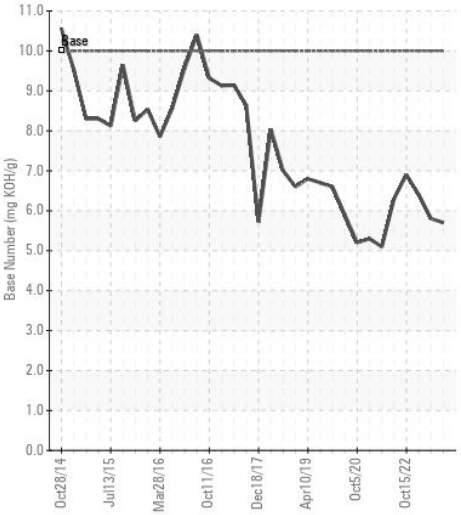

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0885555
Lab Number : 06153746
Unique Number : 10983824
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

Received : 18 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 23 Apr 2024 - Sean Felton

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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