CONST

MileGuard™

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KENWORTH T370 ST-1089
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

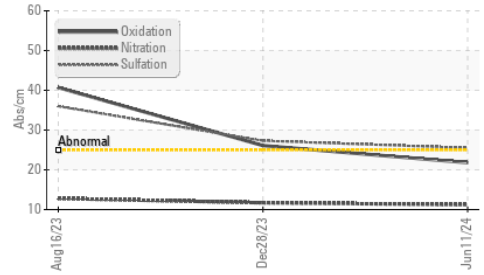
There is no indication of any contamination in the oil.

FLUID CONDITION

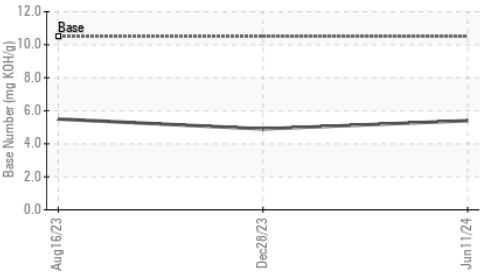
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TLY0002478	TLY0002248	TLY0001780
Sample Date		Client Info		11 Jun 2024	28 Dec 2023	16 Aug 2023
Machine Age	mls	Client Info		68619	3326	2800
Oil Age	mls	Client Info		82306	2800	2800
Filter Age	mls	Client Info		82306	2800	2800
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	40	36	49
Chromium	ppm	ASTM D5185m	>20	1	2	2
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	17	15	26
Lead	ppm	ASTM D5185m	>40	<1	1	0
Copper	ppm	ASTM D5185m	>330	3	3	5
Tin	ppm	ASTM D5185m	>15	1	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	8	7	9
Potassium	ppm	ASTM D5185m	>20	22	23	36
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	0.8	0.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	11.2	11.7	12.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.5	27.3	36.0
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	1
Boron	ppm	ASTM D5185m		62	56	49
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		2	10	37
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		115	246	875
Calcium	ppm	ASTM D5185m		2092	1807	1145
Phosphorus	ppm	ASTM D5185m		1013	879	1022
Zinc	ppm	ASTM D5185m		1168	1096	1280
Sulfur	ppm	ASTM D5185m		3889	3113	3710
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.8	26.1	40.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	5.4	4.9	5.5
Visc @ 100°C	cSt	ASTM D445	11.9	13.9	13.6	13.2

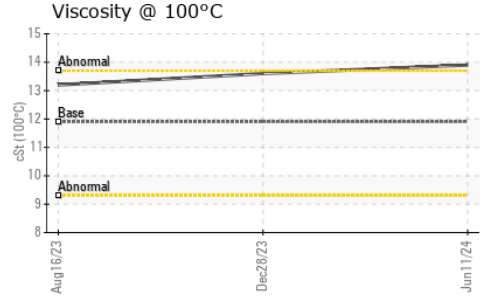
FT-IR (Direct Trend)



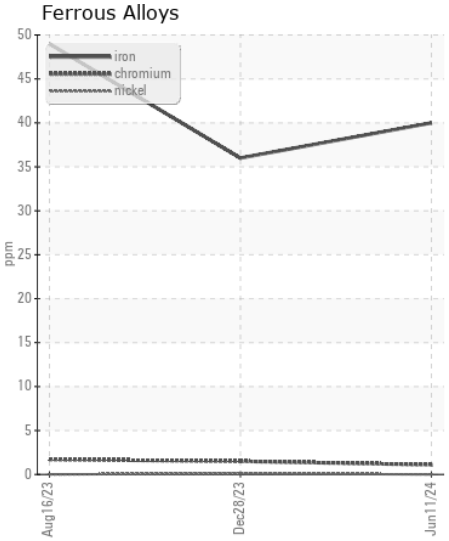
Base Number



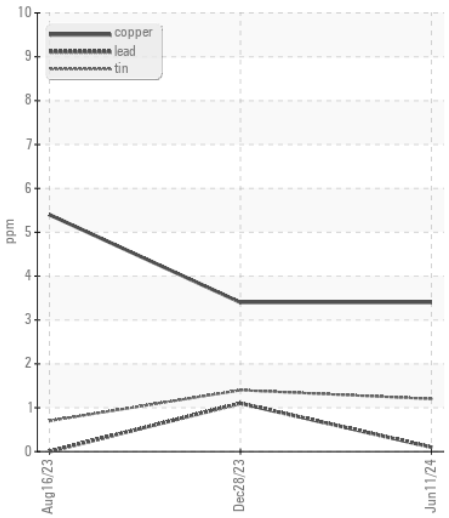
Viscosity @ 100°C



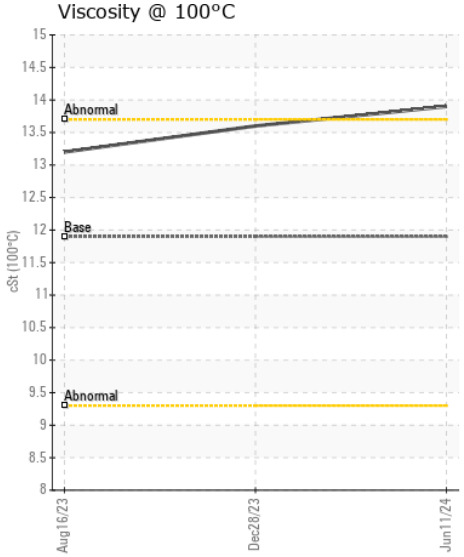
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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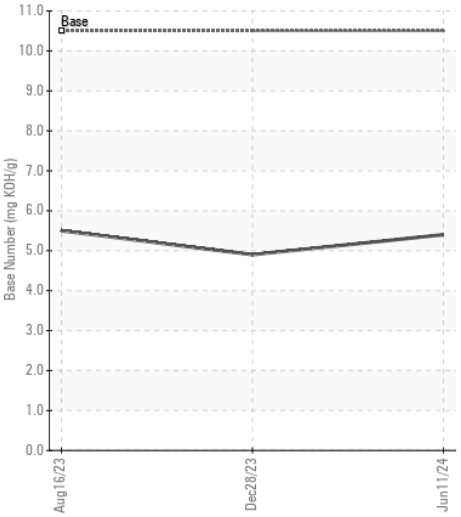

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TLY0002478 **Received** : 18 Jun 2024
Lab Number : 06214136 **Tested** : 20 Jun 2024
Unique Number : 11087000 **Diagnosed** : 20 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: 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)

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