OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KENWORTH 3012
Component
Diesel Engine
Fluid
CHEVRON SUPREME MOTOR OIL 10W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

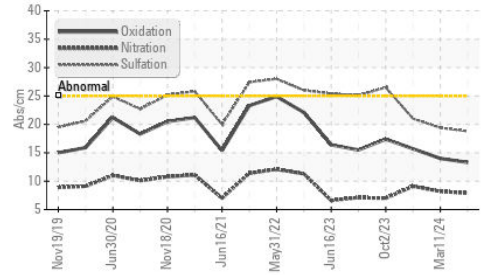
There is no indication of any contamination in the oil.

FLUID CONDITION

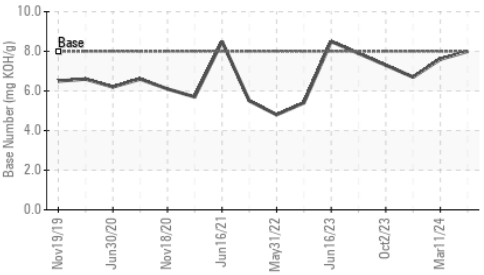
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0906905	WC0906923	WC0906939
Sample Date		Client Info		11 Apr 2024	11 Mar 2024	17 Feb 2024
Machine Age	mls	Client Info		393470	388958	384104
Oil Age	mls	Client Info		363285	25673	363285
Filter Age	mls	Client Info		30185	25673	20819
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>100	9	14	23
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	4	5
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	30	3	6
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	9	5	7
Potassium	ppm	ASTM D5185m	>20	5	8	6
Fuel	%	ASTM D3524	>5	<1.0	<1.0	0.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.9	8.2	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	19.4	21.0
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		5	<1	4
Boron	ppm	ASTM D5185m		91	62	39
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		3	6	4
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		764	719	666
Calcium	ppm	ASTM D5185m		1315	1380	1229
Phosphorus	ppm	ASTM D5185m	990	773	696	747
Zinc	ppm	ASTM D5185m	1100	834	817	692
Sulfur	ppm	ASTM D5185m		3632	3275	2792
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	14.0	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.0	8.0	7.6	6.7
Visc @ 100°C	cSt	ASTM D445	14.0	11.6	12.0	12.1

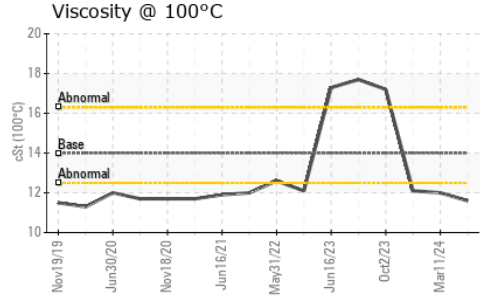
FT-IR (Direct Trend)



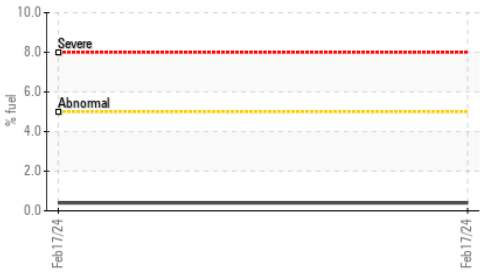
Base Number



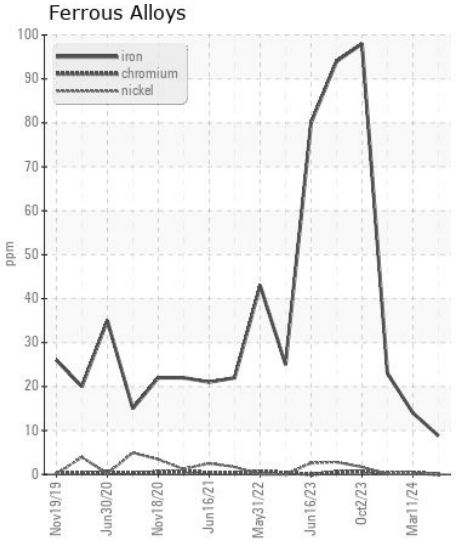
Viscosity @ 100°C



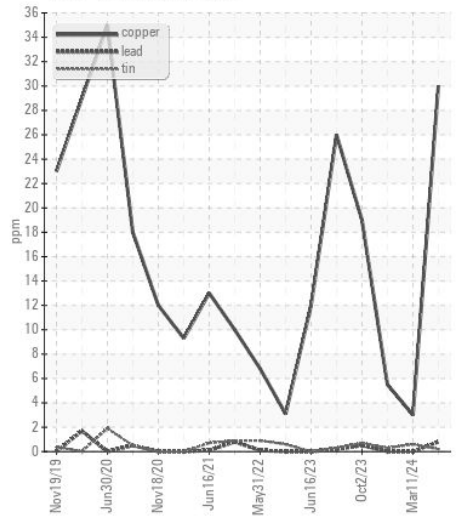
Fuel Dilution



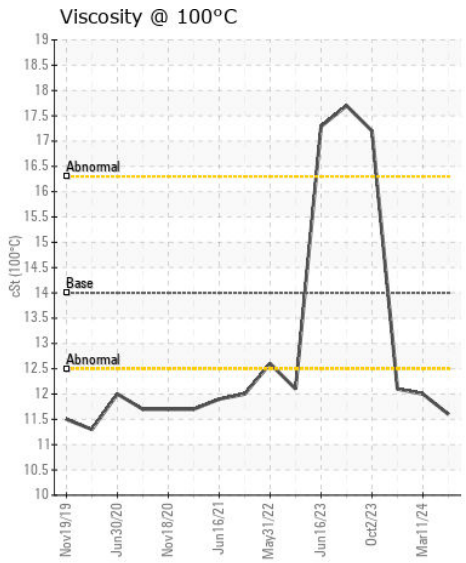
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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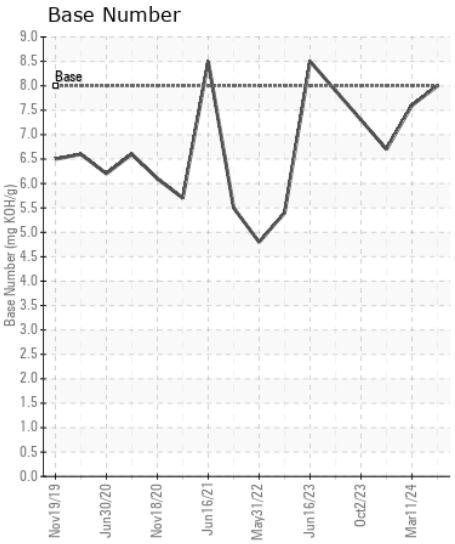

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0906905
Lab Number : 06153760
Unique Number : 10983838
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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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