OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KENWORTH 3011
Component
Diesel Engine
Fluid
CHEVRON SUPREME MOTOR OIL 10W40 (--- QTS)

RECOMMENDATION

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

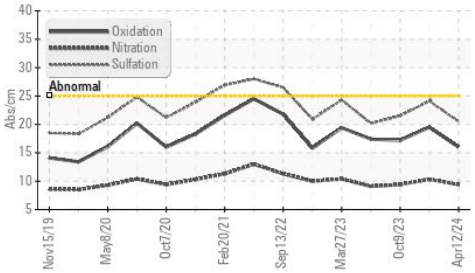
There is no indication of any contamination in the oil.

FLUID CONDITION

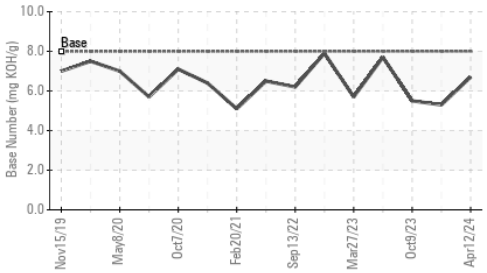
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0906869	WC0863269	WC0663167
Sample Date		Client Info		12 Apr 2024	17 Jan 2024	09 Oct 2023
Machine Age	mls	Client Info		416281	395290	377878
Oil Age	mls	Client Info		399998	352395	25583
Filter Age	mls	Client Info		16283	42895	25583
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	7	16	12
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	6	5
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	7	5	6
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	8	9	8
Potassium	ppm	ASTM D5185m	>20	24	6	6
Fuel	%	ASTM D3524	>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	0.3	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.4	10.3	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	24.1	21.5
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		71	29	32
Barium	ppm	ASTM D5185m		0	0	3
Molybdenum	ppm	ASTM D5185m		51	6	8
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		768	779	698
Calcium	ppm	ASTM D5185m		1325	1403	1314
Phosphorus	ppm	ASTM D5185m	990	747	764	654
Zinc	ppm	ASTM D5185m	1100	820	834	758
Sulfur	ppm	ASTM D5185m		3572	2906	2579
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	19.5	17.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.0	6.7	5.3	5.5
Visc @ 100°C	cSt	ASTM D445	14.0	11.6	11.5	11.7

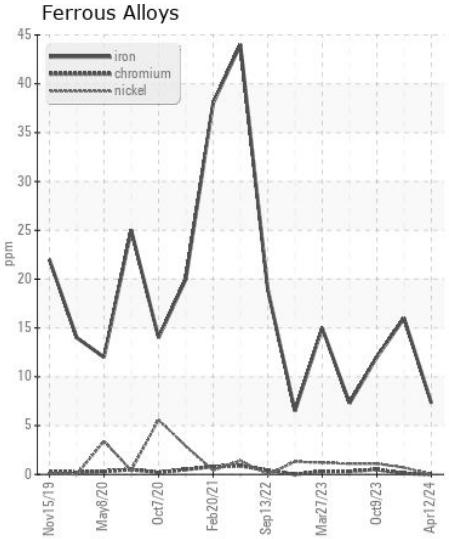
FT-IR (Direct Trend)



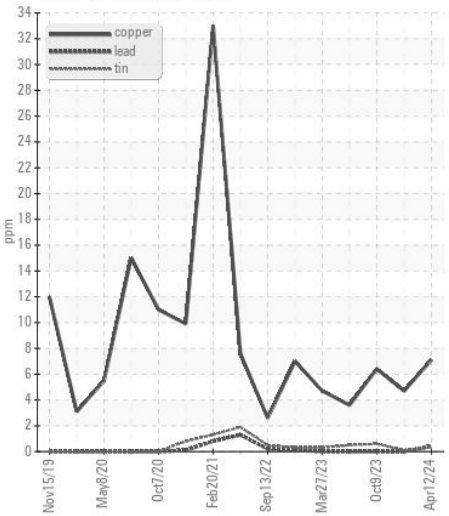
Base Number



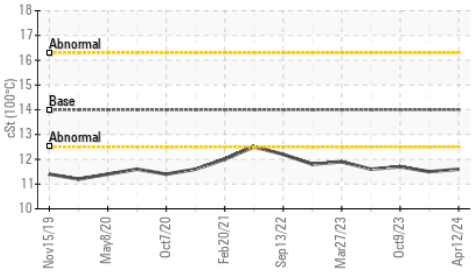
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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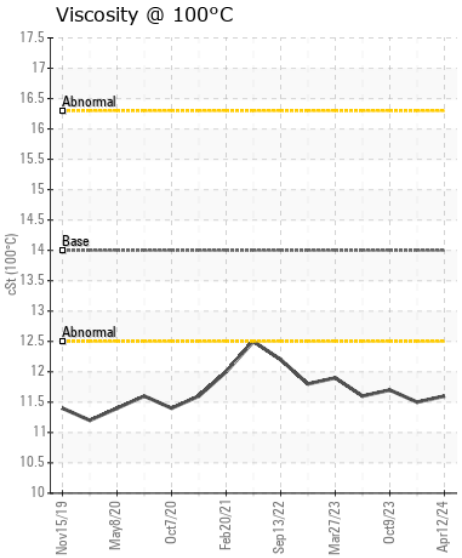

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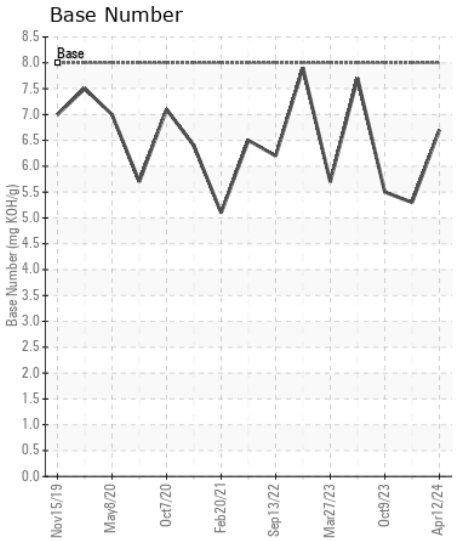

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0906869 **Received** : 18 Apr 2024
Lab Number : 06153753 **Tested** : 23 Apr 2024
Unique Number : 10983831 **Diagnosed** : 23 Apr 2024 - Sean Felton
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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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