OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
3870
Component
Diesel Engine
Fluid
CHEVRON 15W40 (--- 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

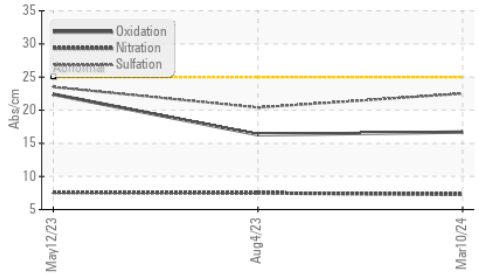
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

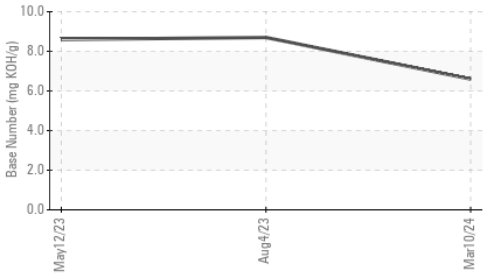
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0936301	WC0828012	WC0806005
Sample Date		Client Info		10 Mar 2024	04 Aug 2023	12 May 2023
Machine Age	mls	Client Info		80570	34039	16338
Oil Age	mls	Client Info		25000	0	16338
Filter Age	mls	Client Info		25000	0	16338
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	ATTENTION
Iron	ppm	ASTM D5185m	>100	14	19	45
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>4	1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	5	27	63
Lead	ppm	ASTM D5185m	>40	1	1	3
Copper	ppm	ASTM D5185m	>330	2	5	19
Tin	ppm	ASTM D5185m	>15	2	1	2
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	8	15	42
Potassium	ppm	ASTM D5185m	>20	11	65	172
Fuel		WC Method	>5	<1.0	<1.0	0.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.3	7.5	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	20.4	23.5
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	>50	1	3	5
Boron	ppm	ASTM D5185m		352	8	40
Barium	ppm	ASTM D5185m		0	0	7
Molybdenum	ppm	ASTM D5185m		94	62	49
Manganese	ppm	ASTM D5185m		<1	1	6
Magnesium	ppm	ASTM D5185m		428	916	530
Calcium	ppm	ASTM D5185m		1489	1211	1556
Phosphorus	ppm	ASTM D5185m		973	1016	767
Zinc	ppm	ASTM D5185m		1278	1237	952
Sulfur	ppm	ASTM D5185m		3561	3733	2766
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	16.3	22.4
Base Number (BN)	mg KOH/g	ASTM D2896		6.6	8.7	8.6
Visc @ 100°C	cSt	ASTM D445	14.4	12.6	12.3	10.0

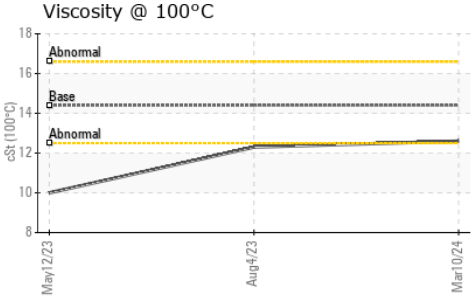
FT-IR (Direct Trend)



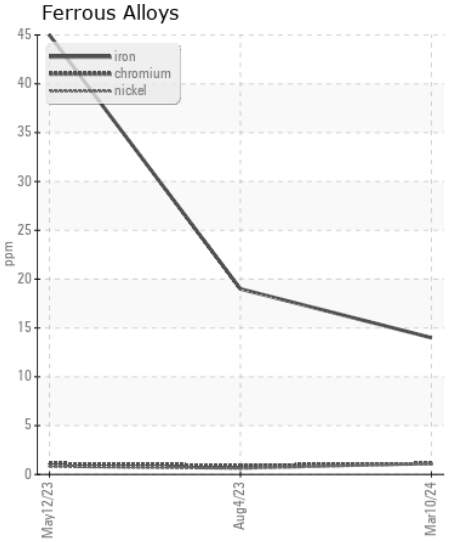
Base Number



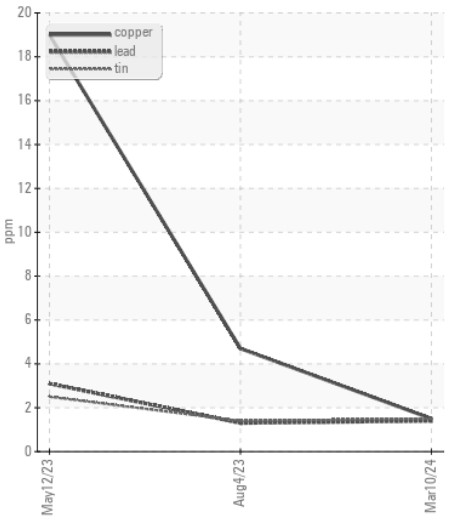
Viscosity @ 100°C



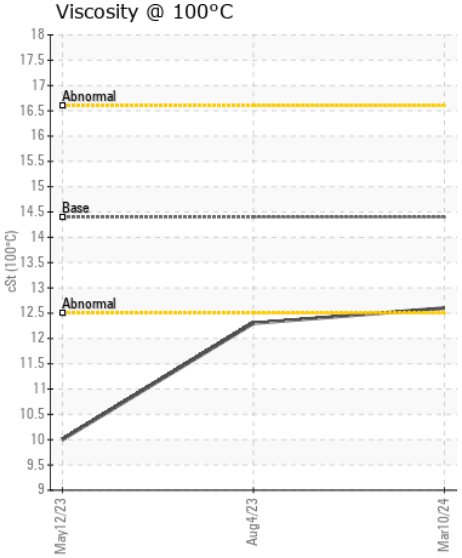
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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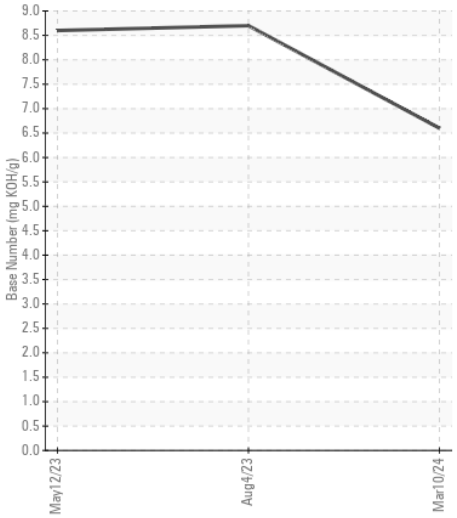

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0936301
Lab Number : 06190033
Unique Number : 11046785
Test Package : FLEET

Received : 23 May 2024
Tested : 25 May 2024
Diagnosed : 25 May 2024 - Wes Davis

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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