OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
8575068
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SAE 10W30 (--- GAL)

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

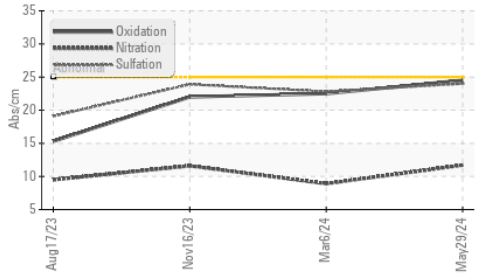
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

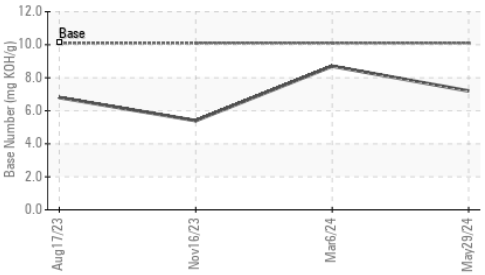
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0019010	RPL0014287	RPL0014627
Sample Date		Client Info		29 May 2024	06 Mar 2024	16 Nov 2023
Machine Age	hrs	Client Info		2165	1596	24113
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	Changed
Filter Changed		Client Info		Not Changd	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	42	26	91
Chromium	ppm	ASTM D5185m	>20	3	2	2
Nickel	ppm	ASTM D5185m	>4	<1	1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	27	22	45
Lead	ppm	ASTM D5185m	>40	4	2	4
Copper	ppm	ASTM D5185m	>330	5	5	31
Tin	ppm	ASTM D5185m	>15	1	2	3
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	13	12	42
Potassium	ppm	ASTM D5185m	>20	76	62	148
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	0.6	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	11.7	8.9	11.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.0	22.8	23.9
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		3	2	6
Boron	ppm	ASTM D5185m		20	35	29
Barium	ppm	ASTM D5185m		<1	2	7
Molybdenum	ppm	ASTM D5185m		45	45	12
Manganese	ppm	ASTM D5185m		1	1	5
Magnesium	ppm	ASTM D5185m		579	515	670
Calcium	ppm	ASTM D5185m		1930	1639	1386
Phosphorus	ppm	ASTM D5185m	1260	841	729	663
Zinc	ppm	ASTM D5185m	1400	1049	892	852
Sulfur	ppm	ASTM D5185m		2950	2491	3029
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.5	22.5	22.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	7.2	8.7	5.4
Visc @ 100°C	cSt	ASTM D445	11.1	11.4	10.7	11.6

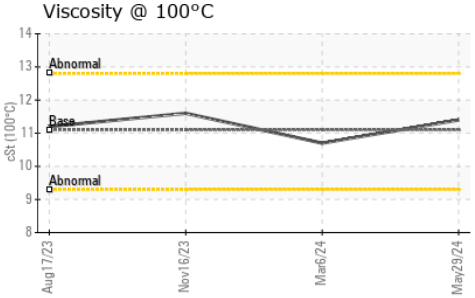
FT-IR (Direct Trend)



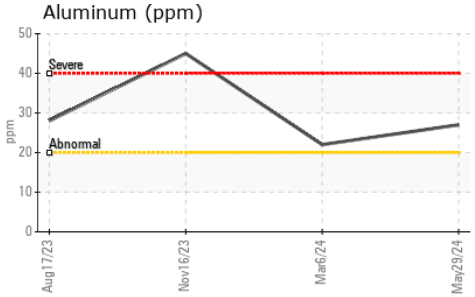
Base Number



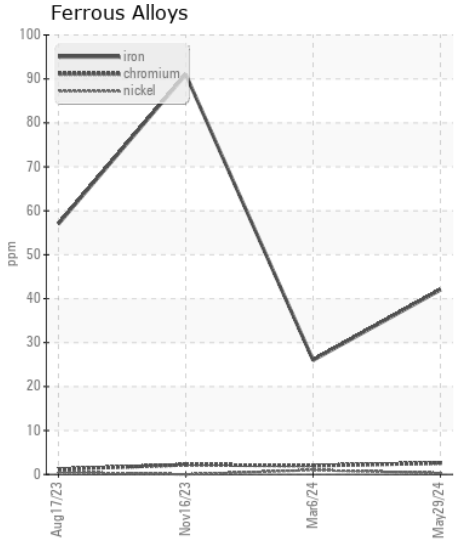
Viscosity @ 100°C



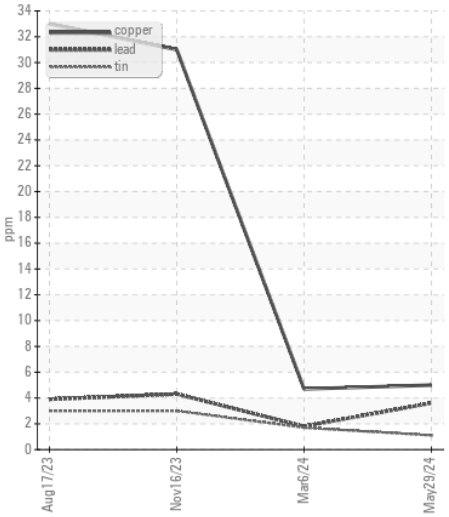
Aluminum (ppm)



Ferrous Alloys



Non-ferrous Metals



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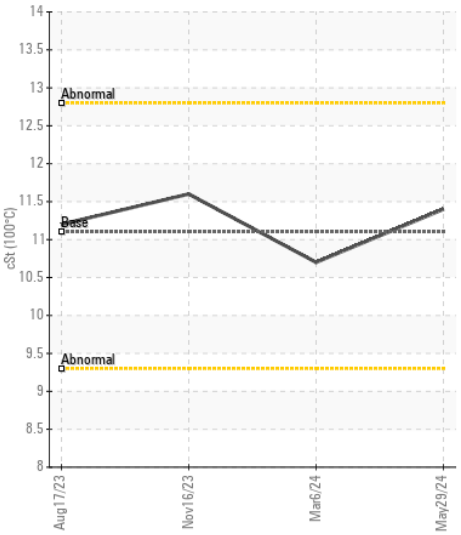

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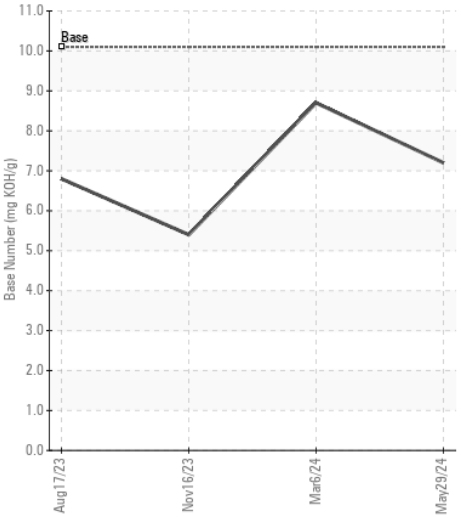

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0019010
Lab Number : 06215276
Unique Number : 11088140
Test Package : FLEET

Received : 20 Jun 2024
Tested : 21 Jun 2024
Diagnosed : 21 Jun 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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