OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2315
Component
1 Diesel Engine
Fluid
CHEVRON DELO 400 SDE SAE 15W40 (48 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

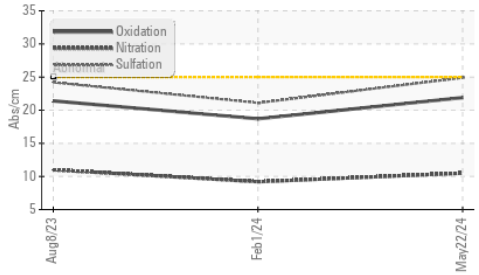
There is no indication of any contamination in the oil.

FLUID CONDITION

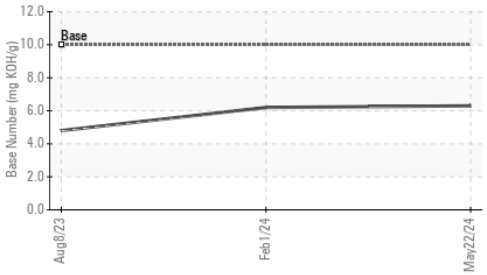
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0876921**	WC0876905	WC0828964
Sample Date		Client Info		**22 May 2024**	01 Feb 2024	08 Aug 2023
Machine Age	mls	Client Info		**62249**	43158	19968
Oil Age	mls	Client Info		**30000**	23190	19968
Filter Age	mls	Client Info		**30000**	23190	19968
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>90	**28**	48	68
Chromium	ppm	ASTM D5185m	>20	**1**	4	6
Nickel	ppm	ASTM D5185m	>2	**0**	<1	<1
Titanium	ppm	ASTM D5185m	>2	**0**	0	<1
Silver	ppm	ASTM D5185m	>2	**<1**	0	0
Aluminum	ppm	ASTM D5185m	>20	**12**	23	34
Lead	ppm	ASTM D5185m	>40	**4**	4	6
Copper	ppm	ASTM D5185m	>330	**2**	8	27
Tin	ppm	ASTM D5185m	>15	**2**	3	4
Vanadium	ppm	ASTM D5185m		**0**	<1	<1
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	**12**	13	40
Potassium	ppm	ASTM D5185m	>20	**27**	60	96
Fuel		WC Method	>3.0	**<1.0**	<1.0	▲ 2.3
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	*ASTM D7844	>6	**0.4**	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	**10.5**	9.2	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	**24.9**	21.1	24.2
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		**2**	2	6
Boron	ppm	ASTM D5185m		**185**	83	31
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**128**	109	23
Manganese	ppm	ASTM D5185m		**1**	2	7
Magnesium	ppm	ASTM D5185m		**701**	627	730
Calcium	ppm	ASTM D5185m		**1585**	1459	1371
Phosphorus	ppm	ASTM D5185m	760	**714**	637	672
Zinc	ppm	ASTM D5185m	800	**855**	801	812
Sulfur	ppm	ASTM D5185m	3000	**2790**	2208	3017
Oxidation	Abs/.1mm	*ASTM D7414	>25	**21.9**	18.7	21.4
Base Number (BN)	mg KOH/g	ASTM D2896	10	**6.3**	6.2	4.8
Visc @ 100°C	cSt	ASTM D445	14.6	**12.8**	12.9	▲ 11.3

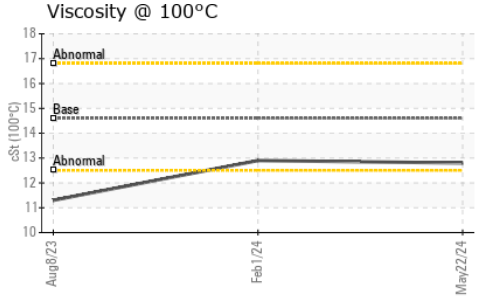
FT-IR (Direct Trend)



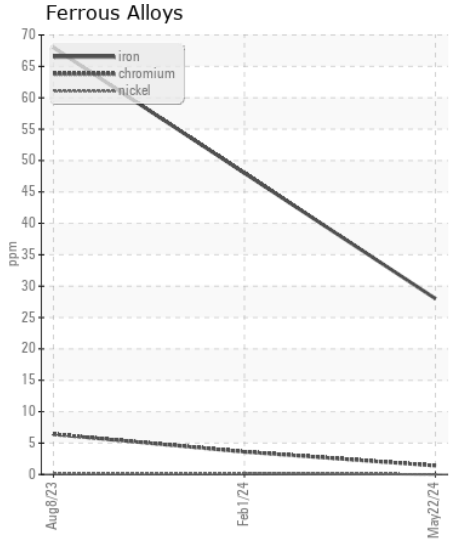
Base Number



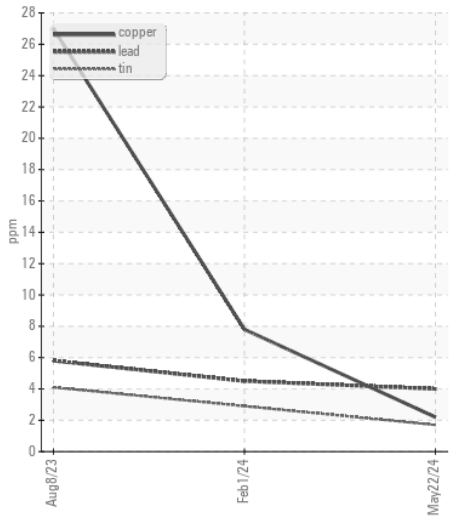
Viscosity @ 100°C



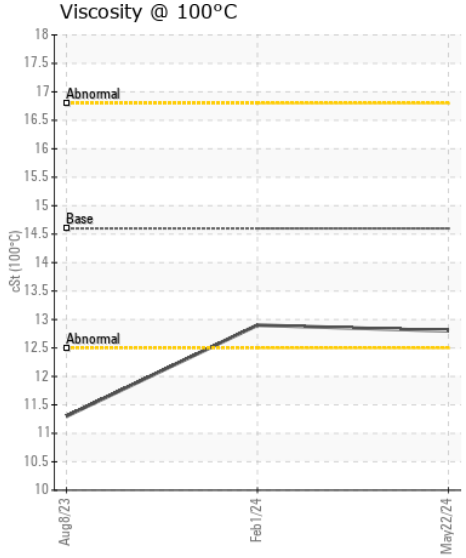
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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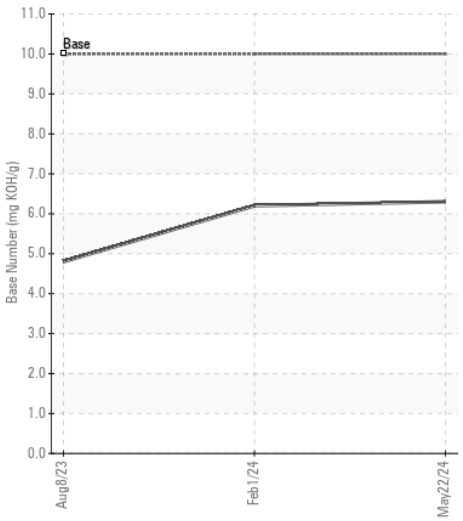

Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: WC0876921	**Received**	: 24 May 2024
Lab Number	: 06191719	**Tested**	: 29 May 2024
Unique Number	: 11048471	**Diagnosed**	: 29 May 2024 - Wes Davis
Test Package	: FLEET		

Ergon Trucking Inc. - NEW604
2567 Congo Arroyo
Newell, WV
US 26050
Contact: JASON JULIAN
T:
F:

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)