OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
8573864
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SAE 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

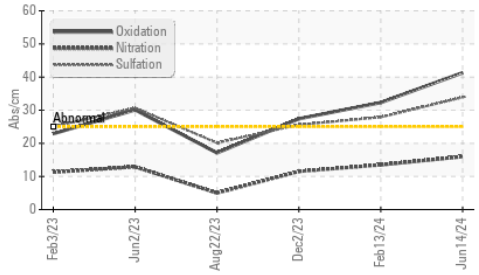
There is no indication of any contamination in the oil.

FLUID CONDITION

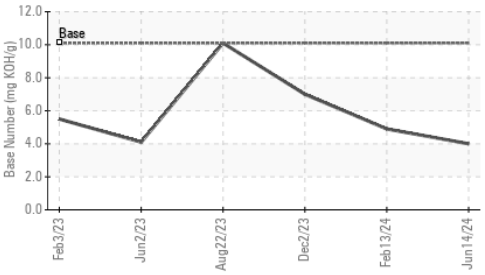
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0018880	RPL0014381	RPL0014570
Sample Date		Client Info		14 Jun 2024	13 Feb 2024	02 Dec 2023
Machine Age	hrs	Client Info		9764	9099	8804
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	81	54	29
Chromium	ppm	ASTM D5185m	>20	3	3	1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	8	6	3
Lead	ppm	ASTM D5185m	>40	14	9	2
Copper	ppm	ASTM D5185m	>330	1	2	<1
Tin	ppm	ASTM D5185m	>15	1	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	8	8	6
Potassium	ppm	ASTM D5185m	>20	16	15	9
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	1.1	0.7	0.5
Nitration	Abs/cm	*ASTM D7624	>20	16.0	13.5	11.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	33.9	27.9	25.6
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	1	<1
Boron	ppm	ASTM D5185m		32	17	20
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		49	43	38
Manganese	ppm	ASTM D5185m		1	1	0
Magnesium	ppm	ASTM D5185m		575	499	532
Calcium	ppm	ASTM D5185m		1723	1546	1625
Phosphorus	ppm	ASTM D5185m	1260	769	741	757
Zinc	ppm	ASTM D5185m	1400	946	874	891
Sulfur	ppm	ASTM D5185m		2583	2330	2652
Oxidation	Abs/.1mm	*ASTM D7414	>25	41.3	32.3	27.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	4.0	4.9	7.0
Visc @ 100°C	cSt	ASTM D445	11.1	12.6	11.1	11.0

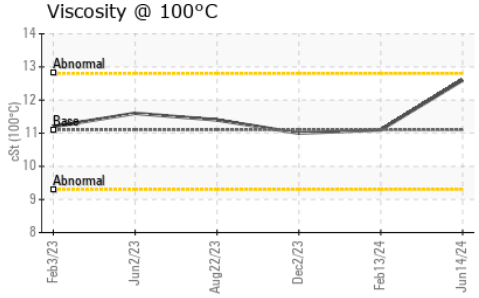
FT-IR (Direct Trend)



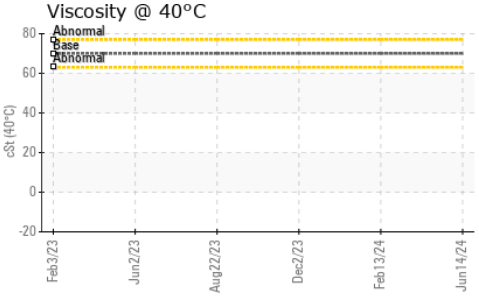
Base Number



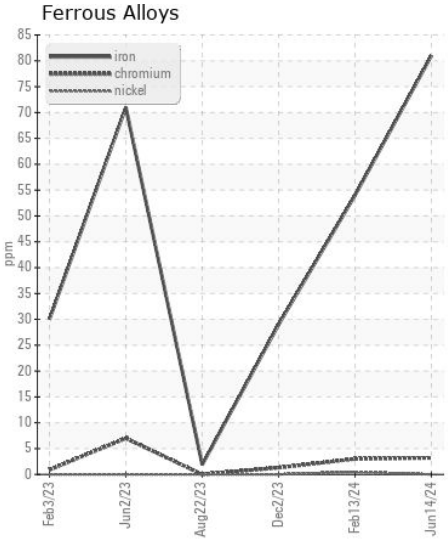
Viscosity @ 100°C



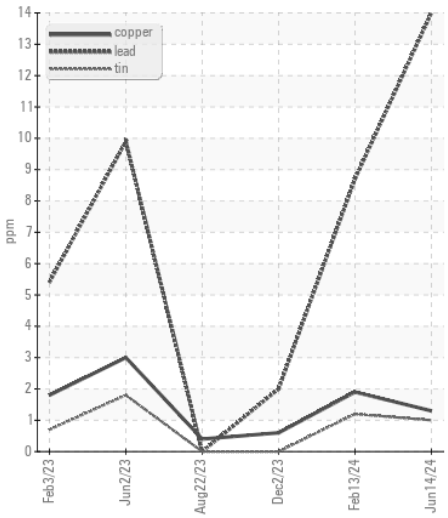
Viscosity @ 40°C



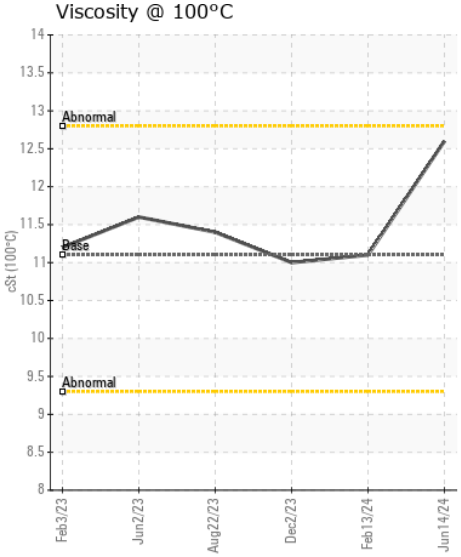
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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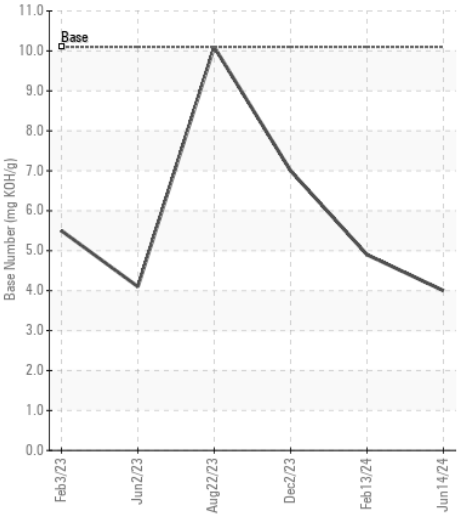

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0018880
Lab Number : 06225496
Unique Number : 11103693
Test Package : FLEET (Additional Tests: KV40)

Received : 01 Jul 2024
Tested : 03 Jul 2024
Diagnosed : 03 Jul 2024 - Don Baldridge

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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