OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
857-4005
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

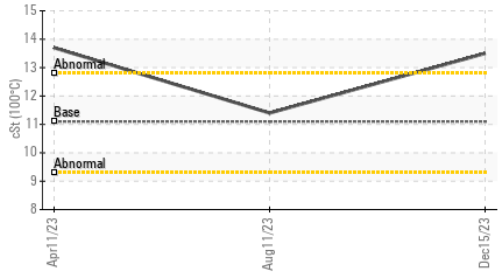
There is no indication of any contamination in the oil.

FLUID CONDITION

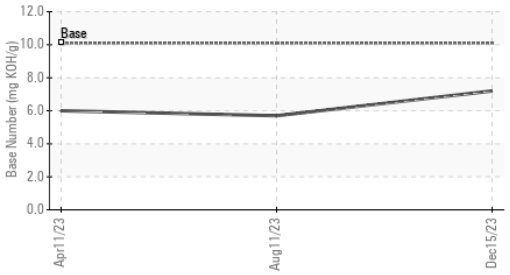
The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0014020	RPL0010298	RPL0010512
Sample Date		Client Info		15 Dec 2023	11 Aug 2023	11 Apr 2023
Machine Age	hrs	Client Info		18551	17882	13304
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				ATTENTION	NORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>100	5	27	35
Chromium	ppm	ASTM D5185m	>20	<1	3	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	17	9
Lead	ppm	ASTM D5185m	>40	0	6	1
Copper	ppm	ASTM D5185m	>330	0	<1	1
Tin	ppm	ASTM D5185m	>15	0	<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	5	6	7
Potassium	ppm	ASTM D5185m	>20	2	9	3
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	0.1	0.4	1.1
Nitration	Abs/cm	*ASTM D7624	>20	5.5	10.9	13.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.0	23.2	24.7
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		<1	4	4
Boron	ppm	ASTM D5185m		8	36	33
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		4	14	51
Manganese	ppm	ASTM D5185m		0	<1	1
Magnesium	ppm	ASTM D5185m		82	766	498
Calcium	ppm	ASTM D5185m		1951	1523	1707
Phosphorus	ppm	ASTM D5185m	1260	796	741	725
Zinc	ppm	ASTM D5185m	1400	926	887	899
Sulfur	ppm	ASTM D5185m		3810	3674	2166
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.7	20.1	25.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	7.2	5.7	6.0
Visc @ 100°C	cSt	ASTM D445	11.1	▲ 13.5	11.4	▲ 13.7

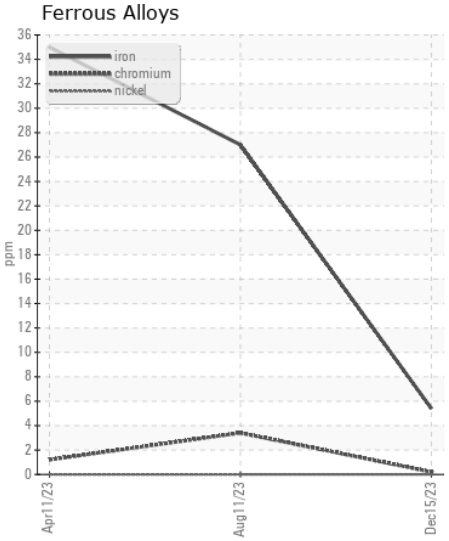
Viscosity @ 100°C



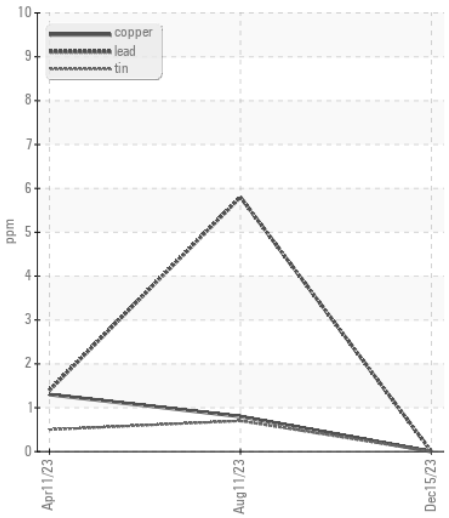
Base Number



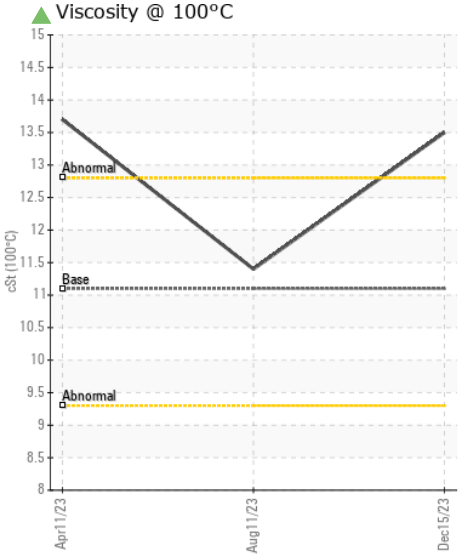
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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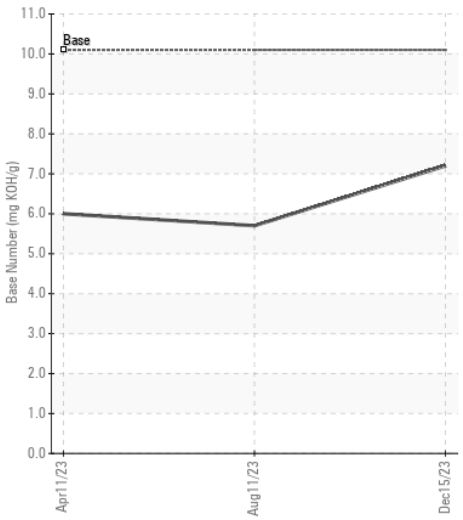

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0014020
Lab Number : 06056224
Unique Number : 10822173
Test Package : FLEET

Recieved : 10 Jan 2024
Diagnosed : 11 Jan 2024
Diagnostician : Angela Borella

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)

RTL PACLEASE - 7001 - Houston
6300 N. Loop East
Houston, TX
US 77026
Contact: RODNEY BRIGGS
briggsr@rushenterprises.com
T:
F: