CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
OKLAHOMA/102/EG - EXCAVATOR
Machine Id
20.209L [OKLAHOMA^102^EG - EXCAVATOR]
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (3 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: 478 hours)

WEAR

All component wear rates are normal.

CONTAMINATION

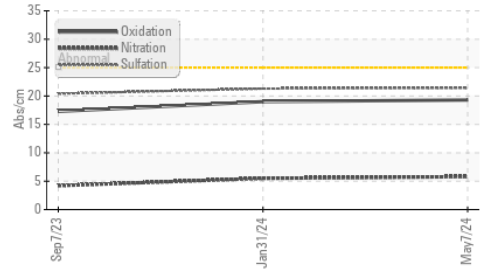
There is no indication of any contamination in the oil.

FLUID CONDITION

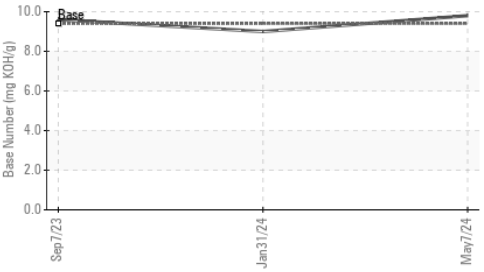
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0901288	WC0864319	WC0746069
Sample Date		Client Info		07 May 2024	31 Jan 2024	07 Sep 2023
Machine Age	hrs	Client Info		478	250	0
Oil Age	hrs	Client Info		478	74	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	ATTENTION	ABNORMAL
Iron	ppm	ASTM D5185m	>100	13	21	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	3	<1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	4	7	4
Tin	ppm	ASTM D5185m	>15	<1	0	<1
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	10	21	16
Potassium	ppm	ASTM D5185m	>20	<1	3	<1
Fuel		WC Method	>5	<1.0	1.0	0.2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.8	5.5	4.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	21.3	20.4
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	1	2
Boron	ppm	ASTM D5185m	0	80	58	71
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	41	40	39
Manganese	ppm	ASTM D5185m		2	7	7
Magnesium	ppm	ASTM D5185m	0	498	423	463
Calcium	ppm	ASTM D5185m		1639	1429	1675
Phosphorus	ppm	ASTM D5185m		816	858	922
Zinc	ppm	ASTM D5185m		940	1031	1112
Sulfur	ppm	ASTM D5185m		2976	2749	3747
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.3	19.0	17.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	9.8	9.0	9.6
Visc @ 100°C	cSt	ASTM D445	14	12.5	● 10.7	▲ 11.3

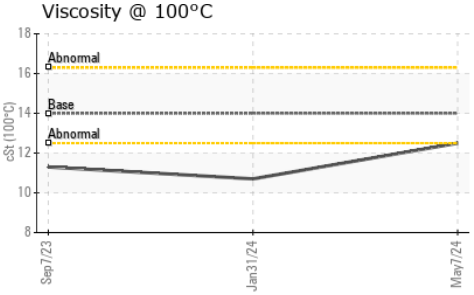
FT-IR (Direct Trend)



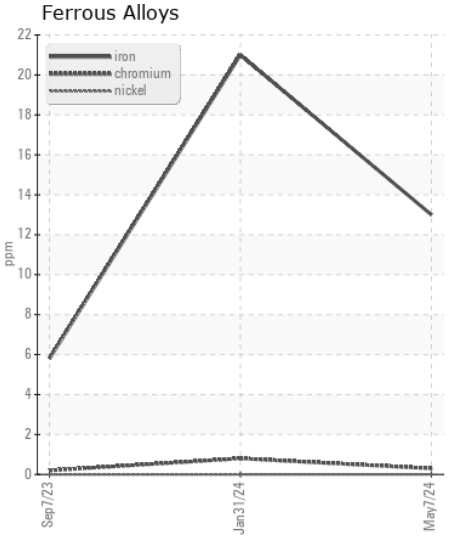
Base Number



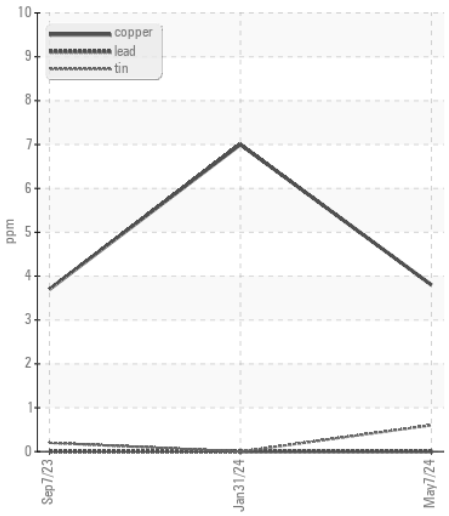
Viscosity @ 100°C



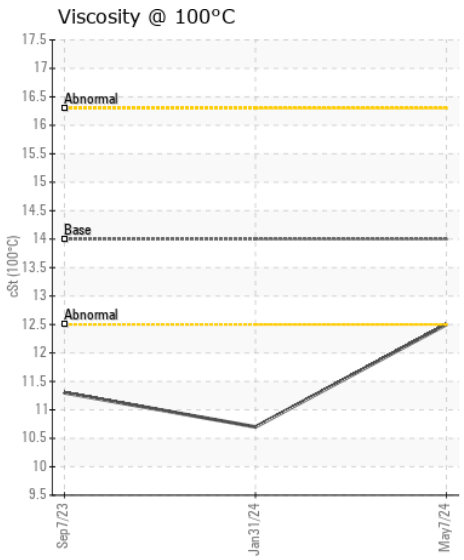
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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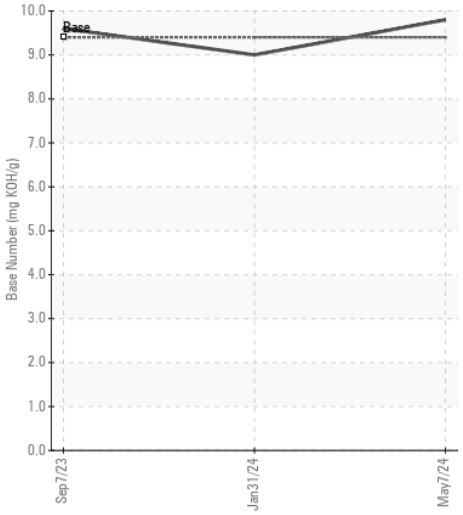

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0901288
Lab Number : 06185816
Unique Number : 11042568
Test Package : CONST (Additional Tests: TBN)

Received : 21 May 2024
Tested : 22 May 2024
Diagnosed : 23 May 2024 - Jonathan Hester

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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