



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
INTERNATIONAL 441397
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (20 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Hours=4277)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0033824	IL0030540	IL0030398
Sample Date		Client Info		12 Apr 2024	27 Nov 2023	26 May 2023
Machine Age	mls	Client Info		151931	126470	93696
Oil Age	mls	Client Info		93696	32774	93696
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				ATTENTION	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	28	33	23
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	20	26	17
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	1	2	1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the oil.

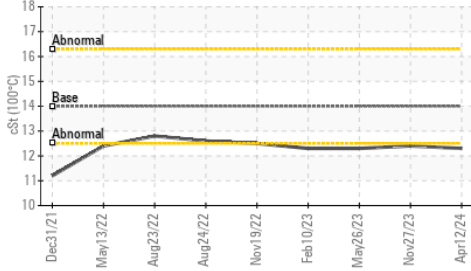
Silicon	ppm	ASTM D5185m	>25	6	8	5
Potassium	ppm	ASTM D5185m	>20	20	44	30
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.8	0.8	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.8	10.5	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	21.9	20.0
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	3	0
Boron	ppm	ASTM D5185m	0	1	2	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	65	62	62
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	0	1026	913	917
Calcium	ppm	ASTM D5185m		1137	1004	1095
Phosphorus	ppm	ASTM D5185m		1071	965	994
Zinc	ppm	ASTM D5185m		1301	1193	1207
Sulfur	ppm	ASTM D5185m		3780	3111	3356
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	18.9	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.1	7.5	9.3
Visc @ 100°C	cSt	ASTM D445	14	12.3	12.4	12.3

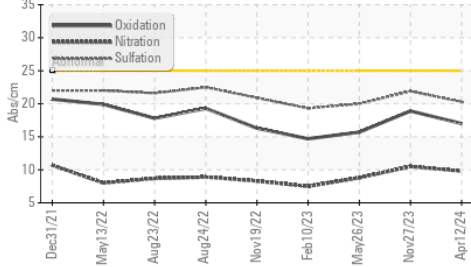
● Viscosity @ 100°C



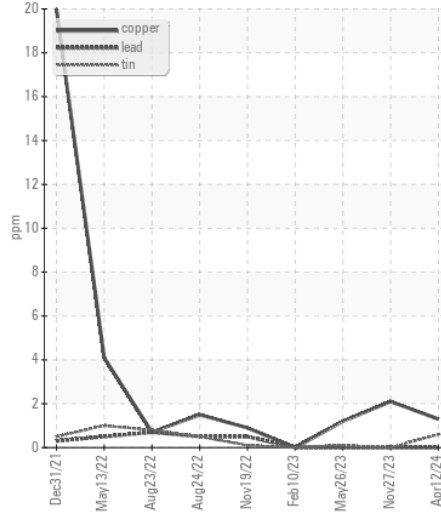
Ferrous Alloys



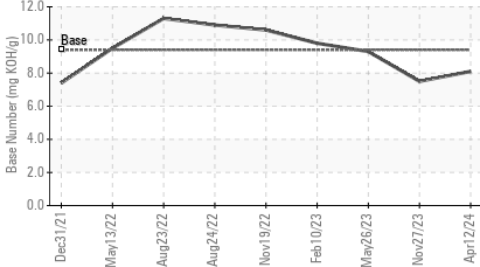
FT-IR (Direct Trend)



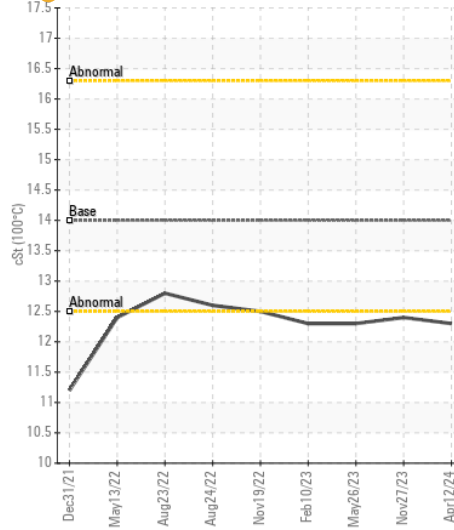
Non-ferrous Metals



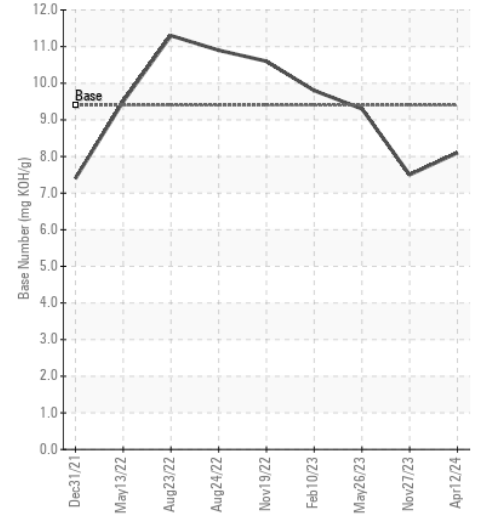
Base Number



● Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0033824
Lab Number : 06161172
Unique Number : 10996595
Test Package : FLEET
Received : 26 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 29 Apr 2024 - Sean Felton

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 1333 AMERON DR
 CHARLOTTE, NC
 US 28206
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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)