



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
441370
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (24 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0030569	IL0030533	IL0030394
Sample Date		Client Info		28 Dec 2023	21 Nov 2023	23 May 2023
Machine Age	mls	Client Info		161990	79013	121145
Oil Age	mls	Client Info		0	0	40333
Filter Age	mls	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	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	12	30	14
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	4	4	5
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	2	<1	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<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

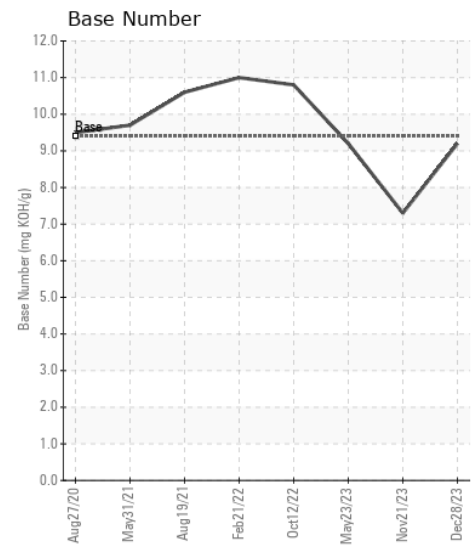
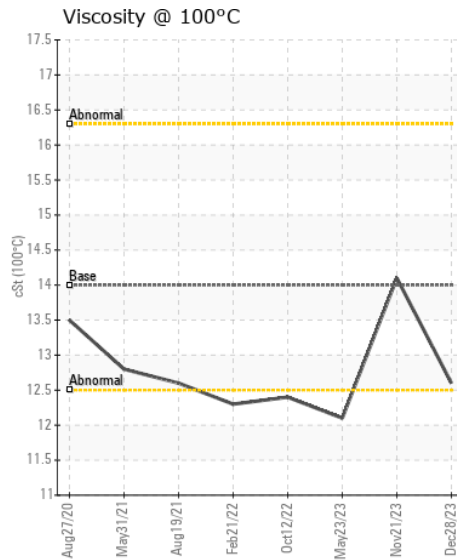
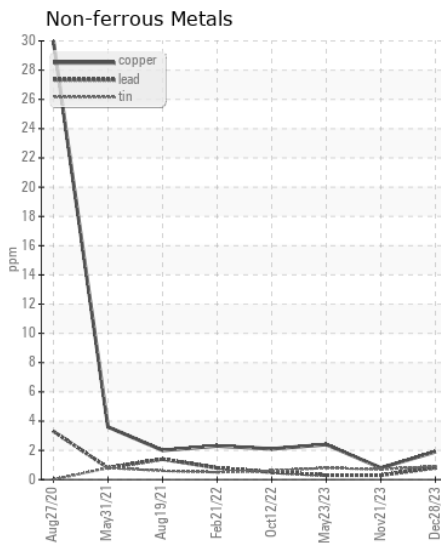
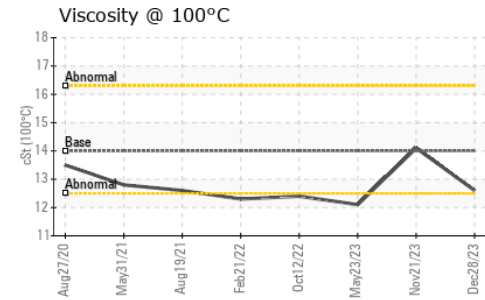
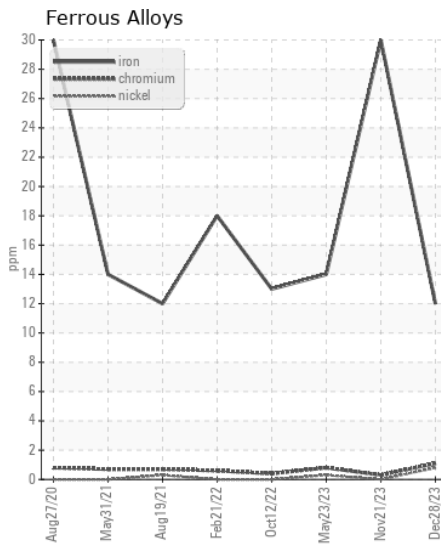
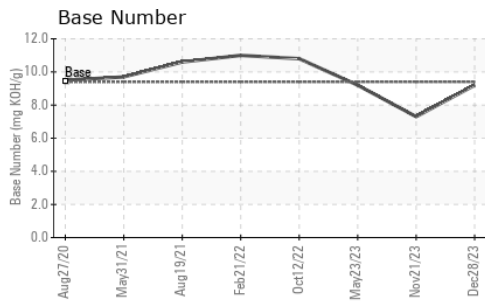
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	5	9
Potassium	ppm	ASTM D5185m	>20	10	0	12
Fuel		WC Method	>3.0	<1.0	<1.0	▲ 2.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.3	1.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.4	10.7	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	20.0	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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	<1	0
Boron	ppm	ASTM D5185m	0	<1	55	5
Barium	ppm	ASTM D5185m	0	13	0	0
Molybdenum	ppm	ASTM D5185m	0	69	87	62
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	971	93	▲ 901
Calcium	ppm	ASTM D5185m		1094	2141	▲ 1132
Phosphorus	ppm	ASTM D5185m		1003	1106	987
Zinc	ppm	ASTM D5185m		1258	1316	1199
Sulfur	ppm	ASTM D5185m		3594	3822	3414
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	15.0	16.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	9.2	7.3	9.2
Visc @ 100°C	cSt	ASTM D445	14	12.6	14.1	12.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0030569
Lab Number : 06086541
Unique Number : 10873986
Test Package : FLEET

Received : 12 Feb 2024
Tested : 13 Feb 2024
Diagnosed : 13 Feb 2024 - Don Baldrige

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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)