



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
28
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TLY0002191	TLY0001861	TLY0001840
Sample Date		Client Info		02 Feb 2024	07 Jan 2024	16 Nov 2023
Machine Age	mls	Client Info		0	747495	742731
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	10	19	81
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>4	0	<1	2
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	1	<1
Lead	ppm	ASTM D5185m	>40	1	3	19
Copper	ppm	ASTM D5185m	>330	2	3	14
Tin	ppm	ASTM D5185m	>15	<1	1	4
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

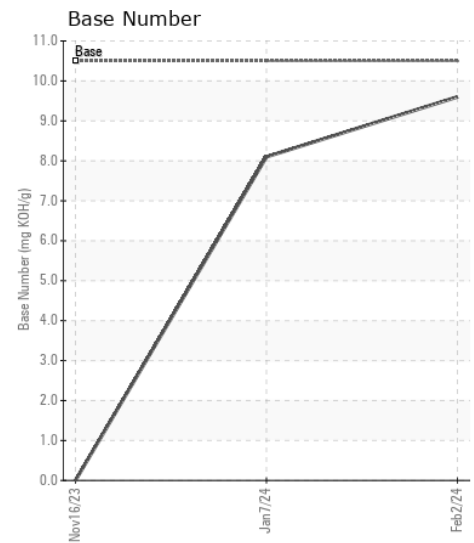
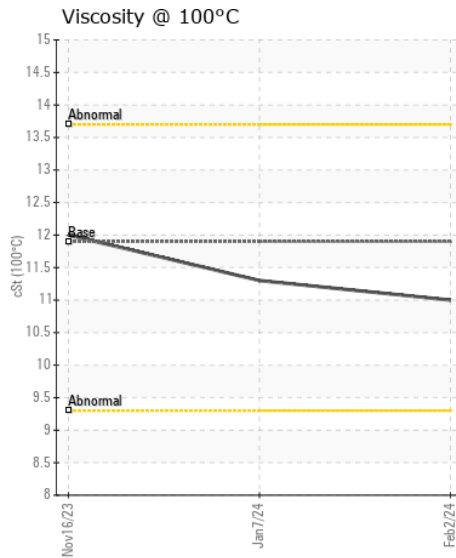
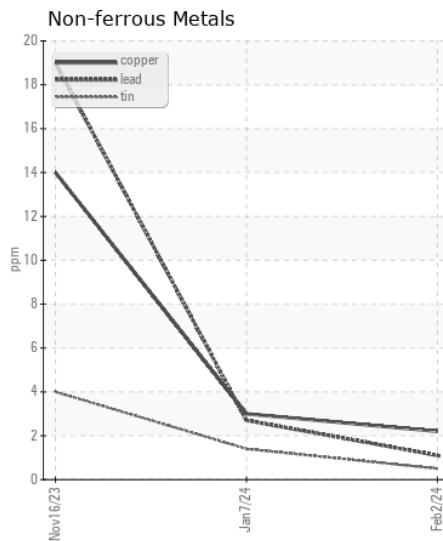
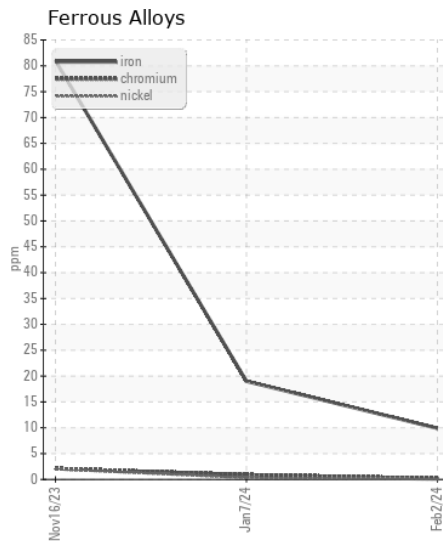
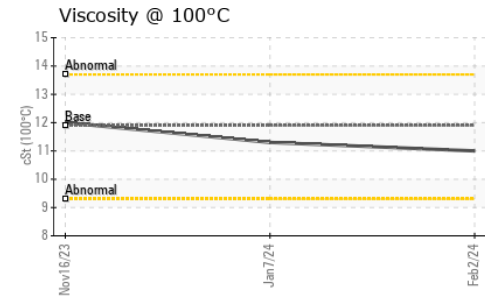
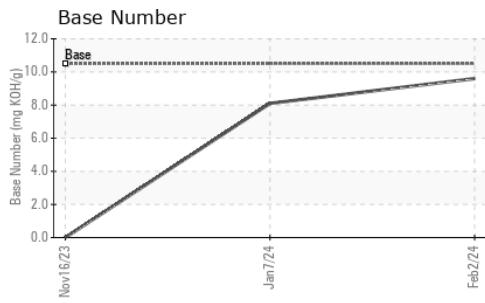
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	17	16	11
Potassium	ppm	ASTM D5185m	>20	<1	<1	5
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	0.8	1.2	▲ 4.8
Nitration	Abs/cm	*ASTM D7624	>20	6.0	10.2	13.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	24.4	29.6
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

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		2	2	<1
Boron	ppm	ASTM D5185m		58	48	25
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		52	47	55
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		600	593	523
Calcium	ppm	ASTM D5185m		1557	1601	1472
Phosphorus	ppm	ASTM D5185m		856	887	718
Zinc	ppm	ASTM D5185m		982	1020	873
Sulfur	ppm	ASTM D5185m		2741	2795	2379
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	21.8	22.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	9.6	8.1	▲ 0.0
Visc @ 100°C	cSt	ASTM D445	11.9	11.0	11.3	12.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TLY0002191 **Received** : 28 Feb 2024
Lab Number : 06103556 **Tested** : 01 Mar 2024
Unique Number : 10901786 **Diagnosed** : 01 Mar 2024 - Wes Davis
Test Package : CONST (Additional Tests: TBN)

COCKEYS ENTERPRISES
 3300 TRANSWAY RD
 HALETHORP, MD
 US 21227
 Contact: FRANK ROLNIAK
 frank.rolniak@cockeys.com

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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F: