



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
{UNASSIGNED}
Machine Id
INTERNATIONAL 441387
Component
Diesel Engine
Fluid
MOBIL 15W40 (21 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0030588	IL0026614	IL0022778
Sample Date		Client Info		17 Jan 2024	27 Dec 2022	17 May 2022
Machine Age	mls	Client Info		87382	61021	46921
Oil Age	mls	Client Info		52162	0	38458
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	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	17	17	17
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	11	16	22
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	2	<1	3
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

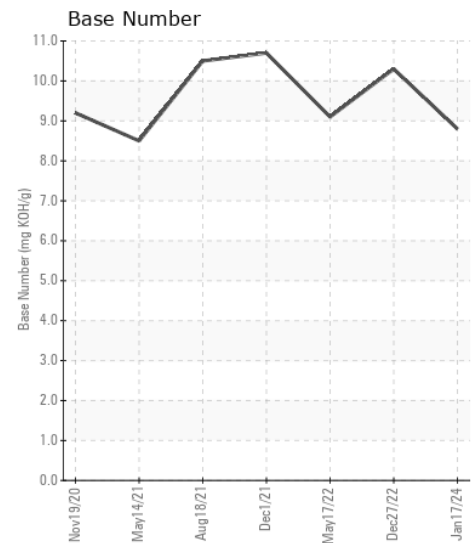
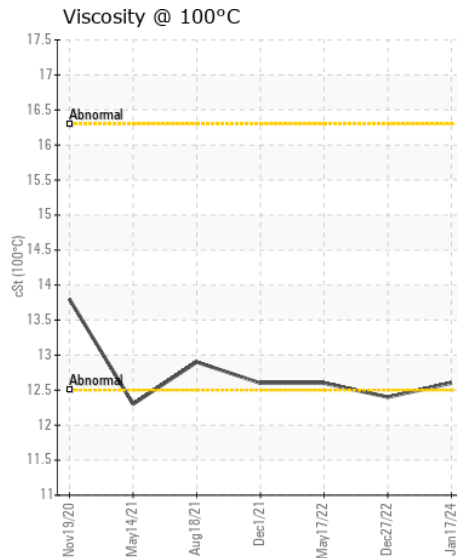
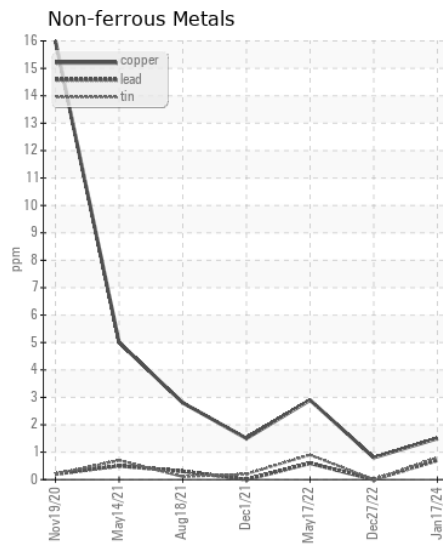
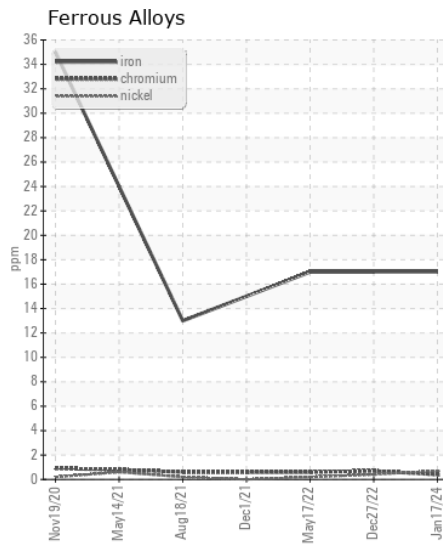
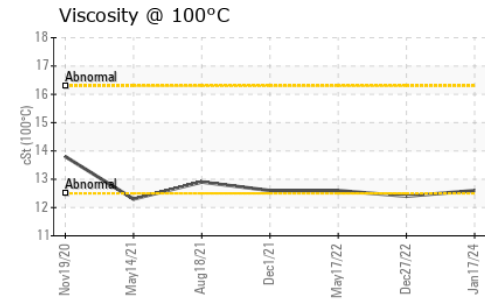
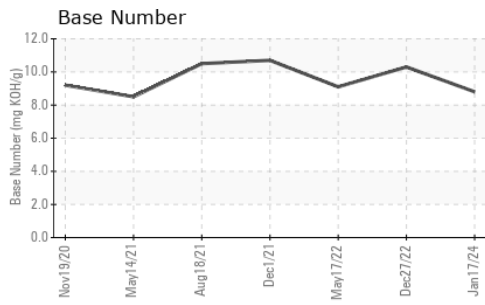
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	8	11
Potassium	ppm	ASTM D5185m	>20	23	30	37
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	0.4	0.6	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.2	8.5	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	20.3	22.3
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	>118	0	2	3
Boron	ppm	ASTM D5185m		2	5	56
Barium	ppm	ASTM D5185m		13	0	0
Molybdenum	ppm	ASTM D5185m		65	61	43
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		943	912	503
Calcium	ppm	ASTM D5185m		1116	1104	1694
Phosphorus	ppm	ASTM D5185m		1006	1024	753
Zinc	ppm	ASTM D5185m		1229	1212	933
Sulfur	ppm	ASTM D5185m		3661	3589	2539
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	15.5	21.1
Base Number (BN)	mg KOH/g	ASTM D2896		8.8	10.3	9.1
Visc @ 100°C	cSt	ASTM D445		12.6	12.4	12.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : IL0030588

Lab Number : 06086542

Unique Number : 10873987

Test Package : FLEET

Received : 12 Feb 2024

Tested : 13 Feb 2024

Diagnosed : 13 Feb 2024 - Don Baldrige

RUSH TRUCK LEASING - CHARLOTTE IDEALEASE

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)