



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
624016
Component
Diesel Engine
Fluid
MOBIL 15W40 (--- 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		IL0030572	IL0030440	IL0026678
Sample Date		Client Info		04 Jan 2024	20 Jul 2023	02 Feb 2023
Machine Age	mls	Client Info		162318	148153	0
Oil Age	mls	Client Info		33850	46156	0
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	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	19	19	18
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	8	11
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

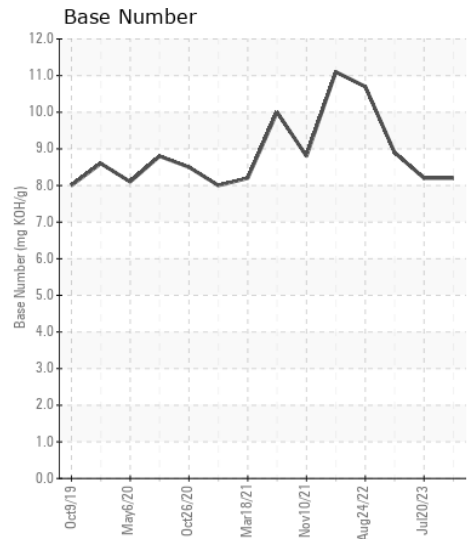
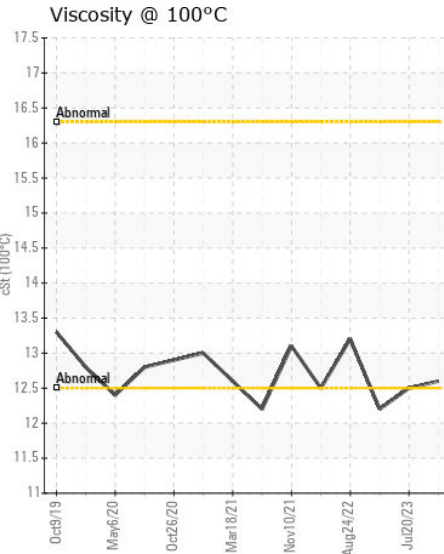
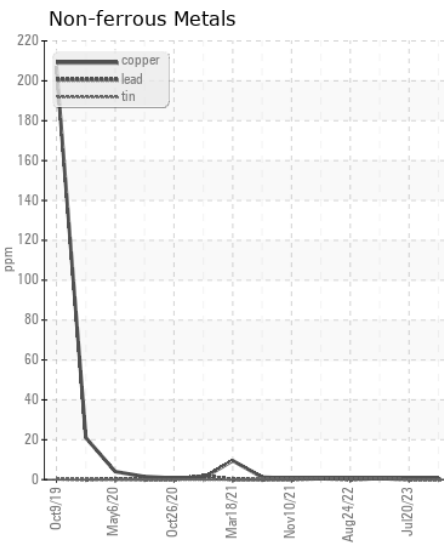
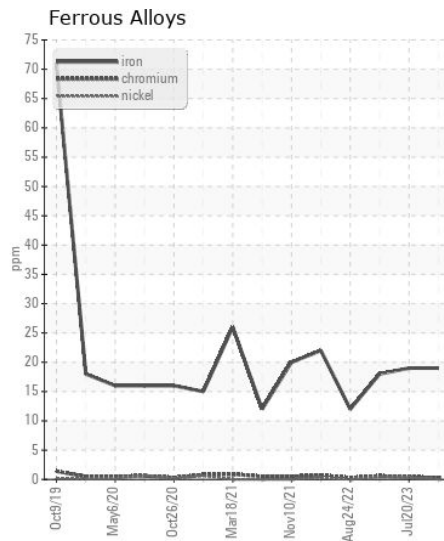
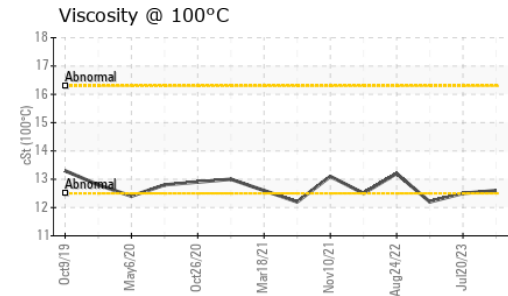
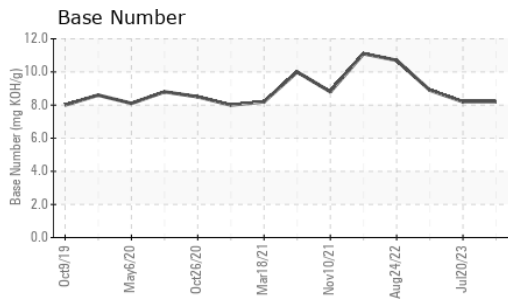
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	5	7
Potassium	ppm	ASTM D5185m	>20	7	10	12
Fuel		WC Method	>5	<1.0	<1.0	▲ 2.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.7	0.6	0.5
Nitration	Abs/cm	*ASTM D7624	>20	10.0	10.1	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	20.7	19.4
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

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	2	0	2
Boron	ppm	ASTM D5185m		2	5	6
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		64	64	62
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1037	927	960
Calcium	ppm	ASTM D5185m		1095	1199	1284
Phosphorus	ppm	ASTM D5185m		1124	1025	1026
Zinc	ppm	ASTM D5185m		1327	1225	1343
Sulfur	ppm	ASTM D5185m		3364	3302	3971
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	17.1	16.0
Base Number (BN)	mg KOH/g	ASTM D2896		8.2	8.2	8.9
Visc @ 100°C	cSt	ASTM D445		12.6	12.5	▲ 12.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0030572 **Received** : 18 Jan 2024
Lab Number : 06064822 **Diagnosed** : 19 Jan 2024
Unique Number : 10836204 **Diagnostician** : Wes Davis
Test Package : FLEET

RUSH TRUCK LEASING - CHARLOTTE IDEALEASE
 1333 AMERON DR
 CHARLOTTE, NC
 US 28206
 Contact: JERRY DIXON
 dixonj@rushenterprises.com
 T: (704)333-4507
 F: (704)333-4508

Certificate L2367
 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)