



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
8340R
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		IL06063979	IL0023665	IL0028040
Sample Date		Client Info		20 Nov 2023	08 Aug 2023	31 Jan 2023
Machine Age	mls	Client Info		0	0	15150
Oil Age	mls	Client Info		0	0	7000
Filter Age	mls	Client Info		0	0	7000
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	34	15	95
Chromium	ppm	ASTM D5185m	>20	1	<1	2
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	4
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	1	0	2
Tin	ppm	ASTM D5185m	>15	0	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

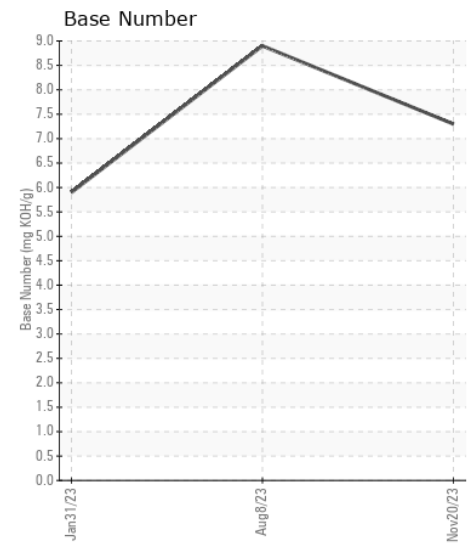
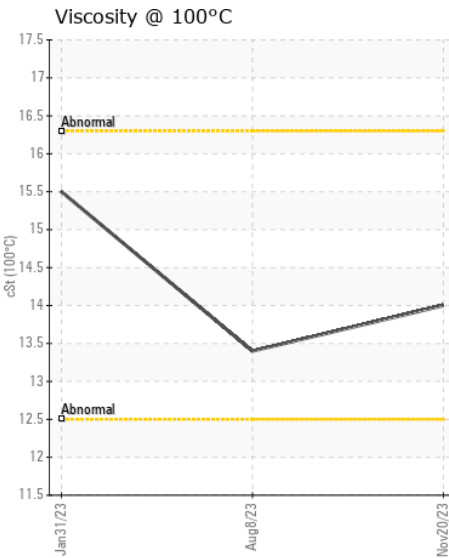
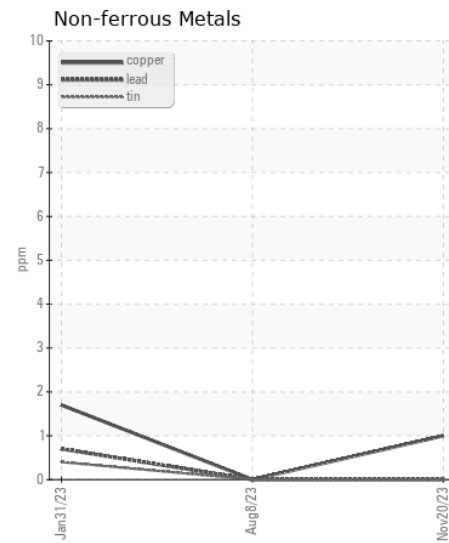
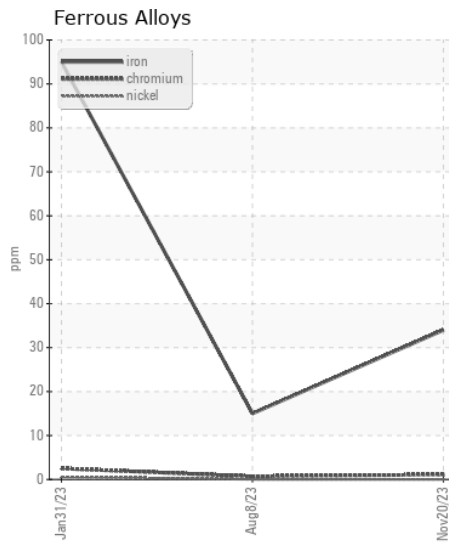
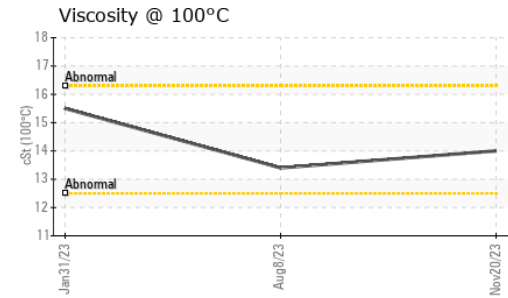
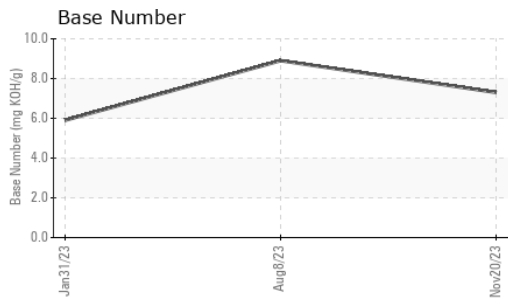
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	3	3	6
Potassium	ppm	ASTM D5185m	>20	2	1	<1
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	2.4	1	▲ 3
Nitration	Abs/cm	*ASTM D7624	>20	12.9	9.6	16.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.5	21.5	31.6
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	>118	0	2	1
Boron	ppm	ASTM D5185m		0	1	2
Barium	ppm	ASTM D5185m		3	0	0
Molybdenum	ppm	ASTM D5185m		59	55	54
Manganese	ppm	ASTM D5185m		0	<1	1
Magnesium	ppm	ASTM D5185m		979	937	908
Calcium	ppm	ASTM D5185m		1062	1040	1163
Phosphorus	ppm	ASTM D5185m		963	1023	937
Zinc	ppm	ASTM D5185m		1208	1251	1155
Sulfur	ppm	ASTM D5185m		3484	3886	3082
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.7	18.7	29.9
Base Number (BN)	mg KOH/g	ASTM D2896		7.3	8.9	5.9
Visc @ 100°C	cSt	ASTM D445		14.0	13.4	15.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL06063979 **Received** : 18 Jan 2024
Lab Number : 06063979 **Diagnosed** : 19 Jan 2024
Unique Number : 10835361 **Diagnostician** : Wes Davis
Test Package : FLEET

RUSH TRUCK CENTER - CHICAGO IDEALEASE
 4655 SOUTH CENTRAL AVENUE
 CHICAGO, IL
 US 60638
 Contact: MIKE LINLEY
 linley@m@rushtruckcenters.com
 T: (708)496-7500
 F: (708)496-8818

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)