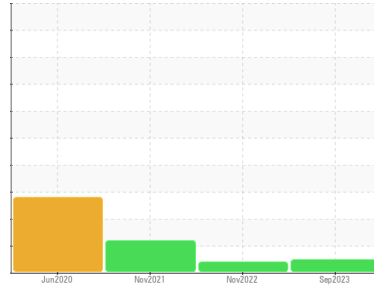




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
4504L
 Component
Diesel Engine
 Fluid
MOBIL 15W40 (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			IL0032471	IL0025799	IL0019559
Sample Date	Client Info			25 Sep 2023	01 Nov 2022	09 Nov 2021
Machine Age	mls	Client Info		36916	28975	19850
Oil Age	mls	Client Info		15000	15000	12754
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	ATTENTION

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method		>5	<1.0	<1.0	▲ 2.9

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	24	30	49
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	24	19	17
Lead	ppm	ASTM D5185m	>40	<1	0	1
Copper	ppm	ASTM D5185m	>330	2	3	11
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Antimony	ppm	ASTM D5185m		---	---	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3	16	30
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		59	52	42
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m		970	759	499
Calcium	ppm	ASTM D5185m		1091	1318	1809
Phosphorus	ppm	ASTM D5185m		970	853	756
Zinc	ppm	ASTM D5185m		1257	1090	879
Sulfur	ppm	ASTM D5185m		3138	3322	2134

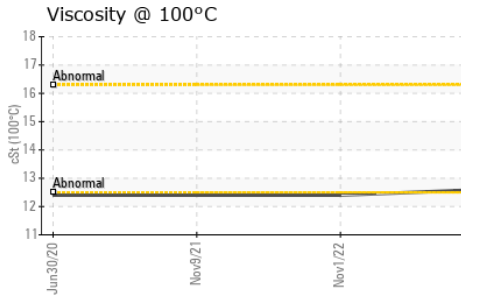
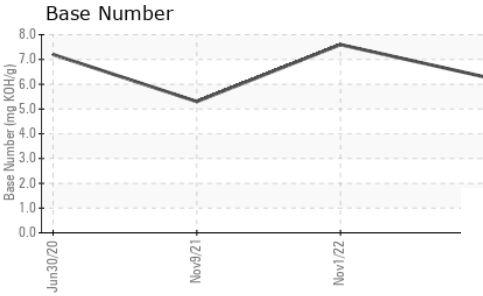
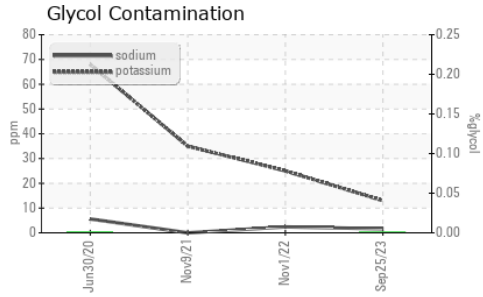
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	9	11
Sodium	ppm	ASTM D5185m	>118	2	2	0
Potassium	ppm	ASTM D5185m	>20	13	25	35
Glycol	%	*ASTM D2982		0.0	NEG	NEG

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.5	12.3	13.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	25.3	28.2

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.5	27.1	33.9
Base Number (BN)	mg KOH/g	ASTM D2896		6.3	7.6	5.3



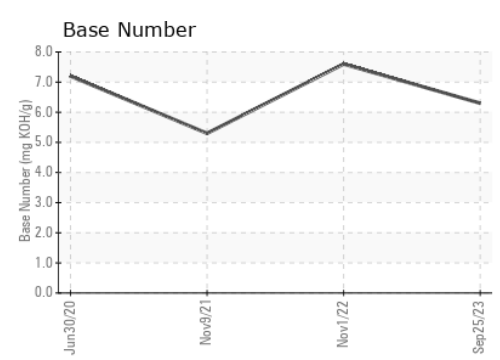
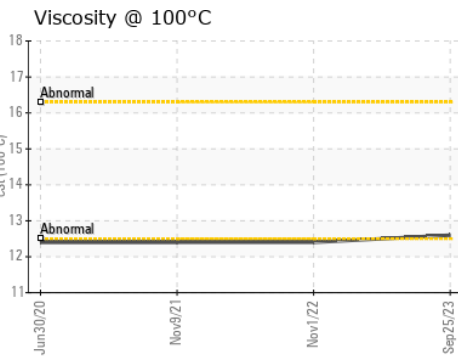
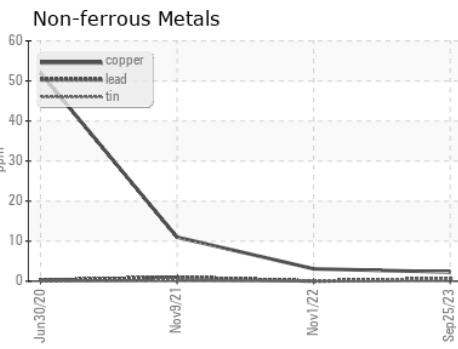
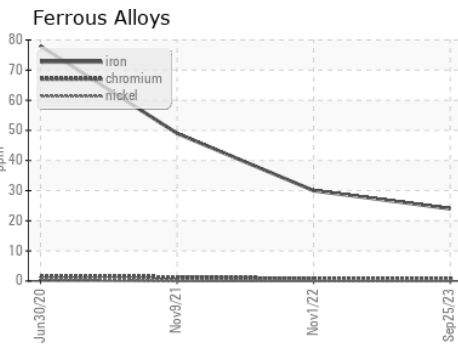
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.6	▲ 12.4	▲ 12.4

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0032471 **Received** : 03 Oct 2023
Lab Number : 05967474 **Diagnosed** : 05 Oct 2023
Unique Number : 10674025 **Diagnostician** : Wes Davis
Test Package : FLEET (Additional Tests: Glycol)

RUSH TRUCK CENTER - CHICAGO IDEALEASE
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 CHICAGO, IL
 US 60638
 Contact: MIKE LINLEY
 linleym@rushtruckcenters.com
 T: (708)496-7500
 F: (708)496-8818

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)