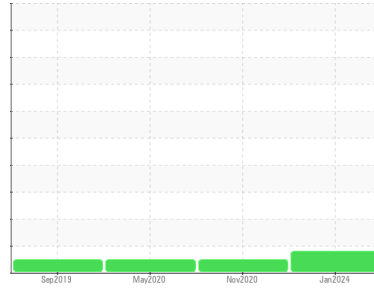




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
INTERNATIONAL I6342

Component
Diesel Engine

Fluid
MOBIL DELVAC 1300 SUPER15W40 (44 QTS)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

The aluminum level is abnormal.

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 acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		IL0012706	IL0007179	IL0012603
Sample Date	Client Info		12 Jan 2024	09 Nov 2020	15 May 2020
Machine Age	hrs	Client Info	0	2170	52239
Oil Age	hrs	Client Info	0	249	27287
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >165	34	28	29
Chromium	ppm	ASTM D5185m >5	2	2	1
Nickel	ppm	ASTM D5185m >4	<1	0	<1
Titanium	ppm	ASTM D5185m >2	0	0	0
Silver	ppm	ASTM D5185m >2	<1	<1	<1
Aluminum	ppm	ASTM D5185m >20	▲ 21	6	9
Lead	ppm	ASTM D5185m >150	7	9	10
Copper	ppm	ASTM D5185m >90	1	6	14
Tin	ppm	ASTM D5185m >5	2	2	2
Antimony	ppm	ASTM D5185m	---	0	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	33	36	44
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 0	58	<1	2
Manganese	ppm	ASTM D5185m	1	<1	<1
Magnesium	ppm	ASTM D5185m 0	544	734	720
Calcium	ppm	ASTM D5185m	1491	1368	1325
Phosphorus	ppm	ASTM D5185m	744	696	652
Zinc	ppm	ASTM D5185m	916	850	727
Sulfur	ppm	ASTM D5185m	2555	2310	2220

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >35	6	3	10
Sodium	ppm	ASTM D5185m	3	2	3
Potassium	ppm	ASTM D5185m >20	37	13	30

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >7.5	0.7	0.4	0.3
Nitration	Abs/cm	*ASTM D7624 >20	11.9	10.8	10.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	25.2	26.1	24.2

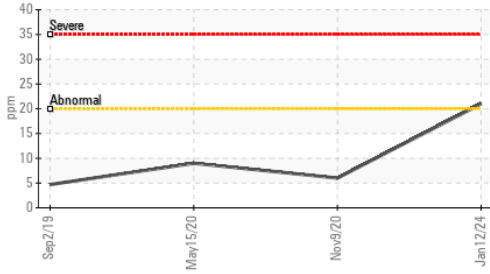
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	27.0	22	20
Base Number (BN)	mg KOH/g	ASTM D2896 9.4	5.7	6.3	6.4



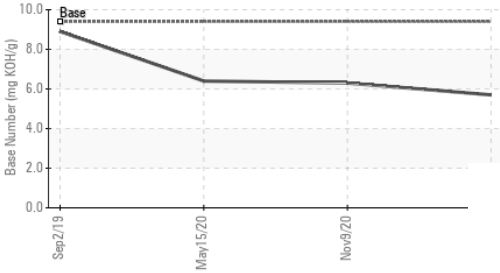
OIL ANALYSIS REPORT

▲ Aluminum (ppm)



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

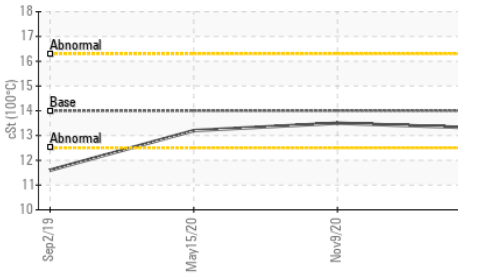
Base Number



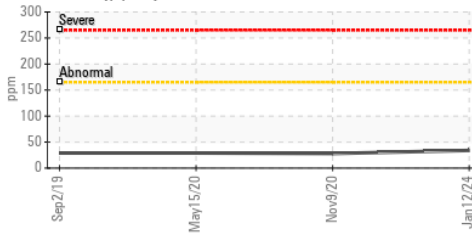
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14	13.3	13.5

GRAPHS

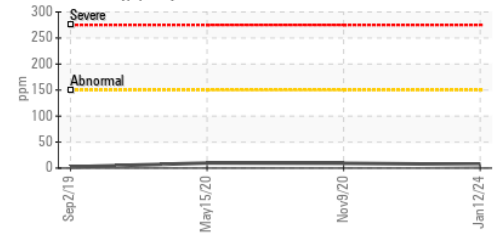
Viscosity @ 100°C



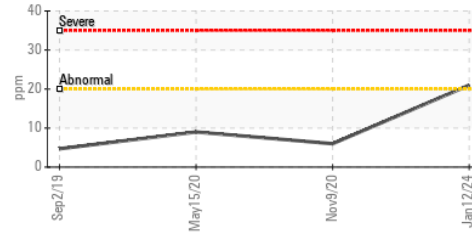
Iron (ppm)



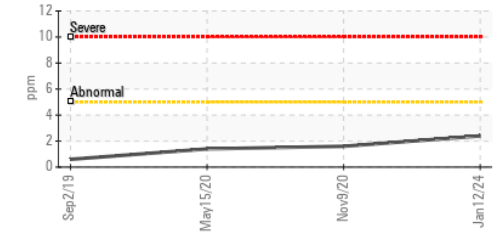
Lead (ppm)



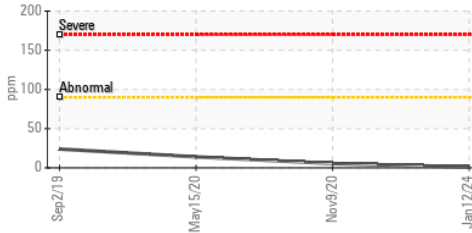
▲ Aluminum (ppm)



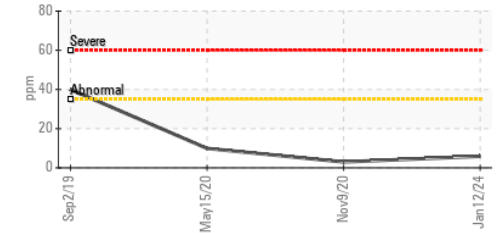
Chromium (ppm)



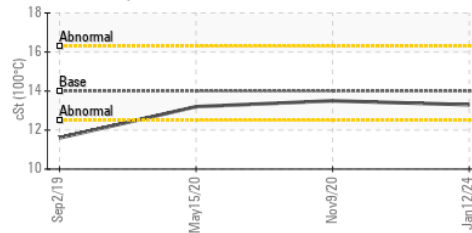
Copper (ppm)



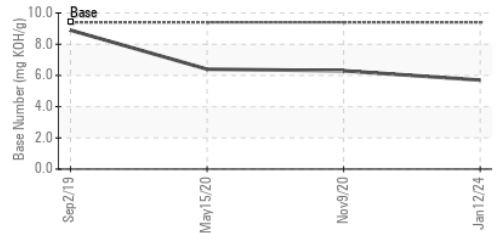
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0012706 **Recieved** : 31 Jan 2024
Lab Number : 06075562 **Diagnosed** : 01 Feb 2024
Unique Number : 10857653 **Diagnostician** : Angela Borella
Test Package : MOB1+

RUSH TRUCK LEASING - SALT LAKE CITY IDEALEASE
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 US 84104
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 AlexanderJ1@RushEnterprises.com
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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)