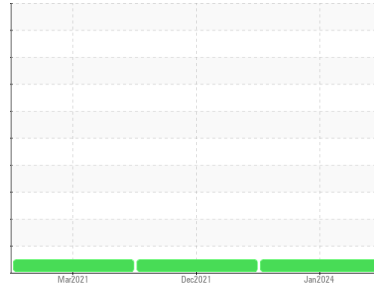




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
I6365

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 15W40 (--- QTS)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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	IL0012708	IL0007154	IL0007195
Sample Date	Client Info	13 Jan 2024	03 Dec 2021	05 Mar 2021
Machine Age	hrs	Client Info	2316	1334
Oil Age	hrs	Client Info	311	504
Oil Changed	Client Info	Changed	N/A	Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<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 >100	26	8	17
Chromium	ppm ASTM D5185m >20	4	<1	2
Nickel	ppm ASTM D5185m >4	<1	<1	0
Titanium	ppm ASTM D5185m	0	<1	<1
Silver	ppm ASTM D5185m >3	<1	<1	<1
Aluminum	ppm ASTM D5185m >20	29	10	7
Lead	ppm ASTM D5185m >40	12	1	2
Copper	ppm ASTM D5185m >330	2	<1	6
Tin	ppm ASTM D5185m >15	2	<1	1
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 250	27	84	60
Barium	ppm ASTM D5185m 10	0	0	0
Molybdenum	ppm ASTM D5185m 100	92	3	3
Manganese	ppm ASTM D5185m	1	<1	<1
Magnesium	ppm ASTM D5185m 450	659	803	726
Calcium	ppm ASTM D5185m 3000	1289	1476	1361
Phosphorus	ppm ASTM D5185m 1150	784	820	765
Zinc	ppm ASTM D5185m 1350	928	879	835
Sulfur	ppm ASTM D5185m 4250	2804	2811	2504

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	6	5	3
Sodium	ppm ASTM D5185m >158	3	5	2
Potassium	ppm ASTM D5185m >20	60	24	27

INFRA-RED

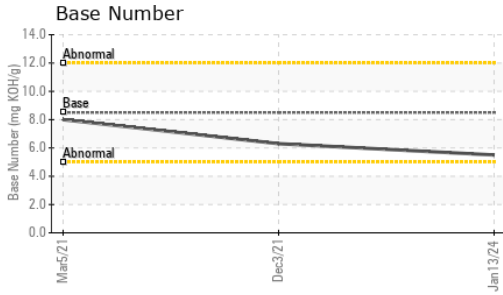
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.9	0.8	0.4
Nitration	Abs/cm *ASTM D7624 >20	11.7	10.7	9.5
Sulfation	Abs/.1mm *ASTM D7415 >30	23.4	29.4	22.2

FLUID DEGRADATION

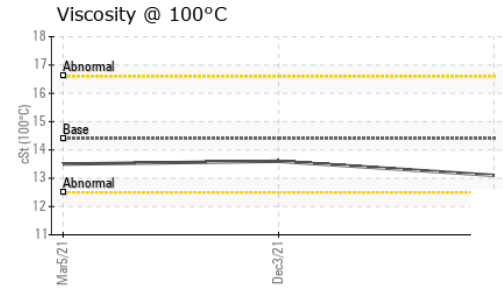
method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	21.4	22.9	14.7
Base Number (BN)	mg KOH/g ASTM D2896 8.5	5.5	6.3	8



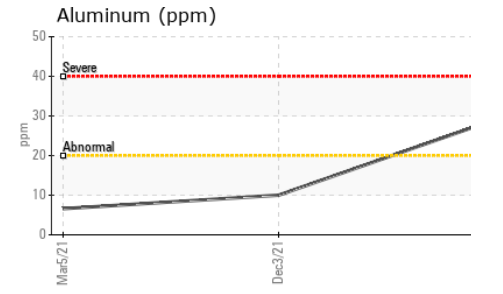
OIL ANALYSIS REPORT



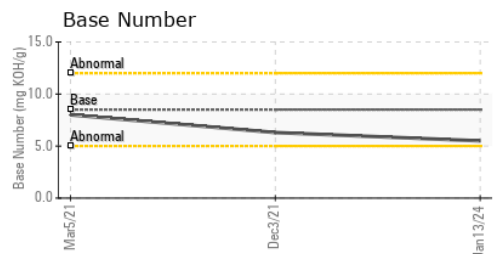
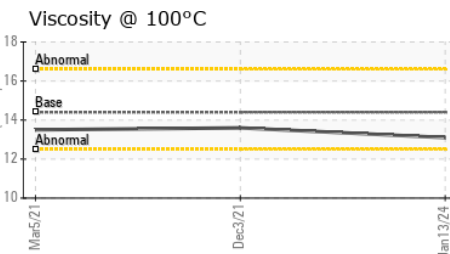
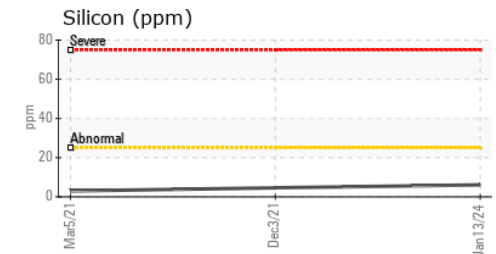
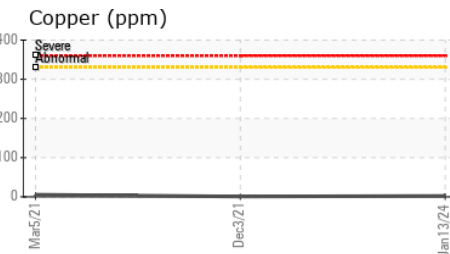
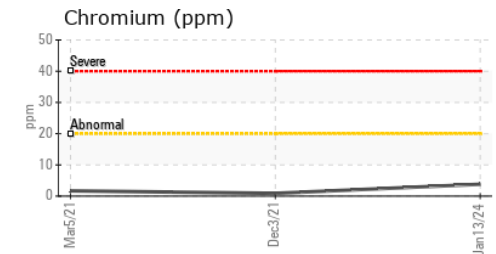
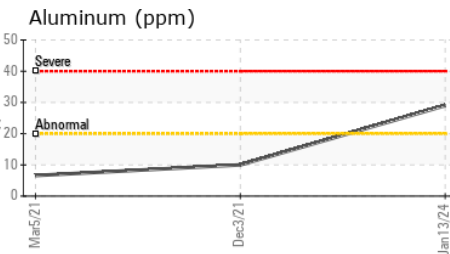
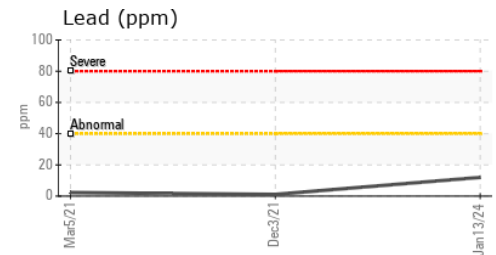
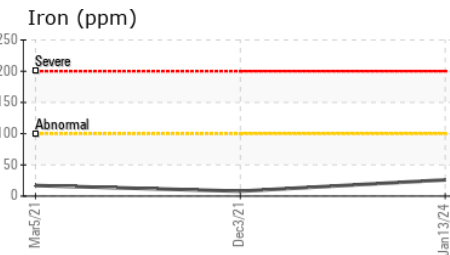
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	14.4	13.6	13.5



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0012708 **Recieved** : 31 Jan 2024
Lab Number : 06075560 **Diagnosed** : 31 Jan 2024
Unique Number : 10857651 **Diagnostician** : Wes Davis
Test Package : MOB1+

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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)