



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL 442323
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 40 (20 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0036555	IL0031111	---
Sample Date		Client Info		07 Mar 2024	19 Apr 2023	---
Machine Age	mls	Client Info		103775	20988	---
Oil Age	mls	Client Info		18967	20988	---
Filter Age	mls	Client Info		18967	20988	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	26	59	---
Chromium	ppm	ASTM D5185m	>20	2	2	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	5	5	---
Lead	ppm	ASTM D5185m	>40	0	0	---
Copper	ppm	ASTM D5185m	>330	2	43	---
Tin	ppm	ASTM D5185m	>15	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

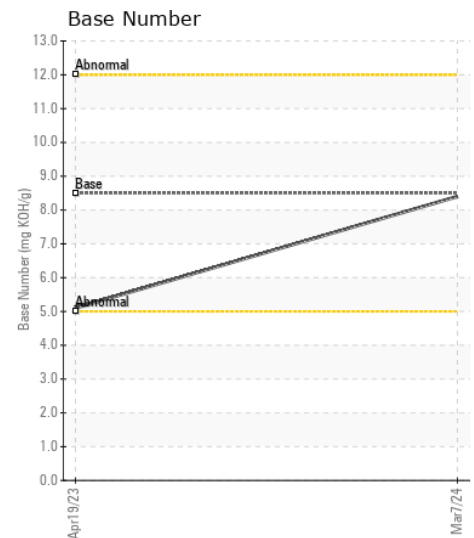
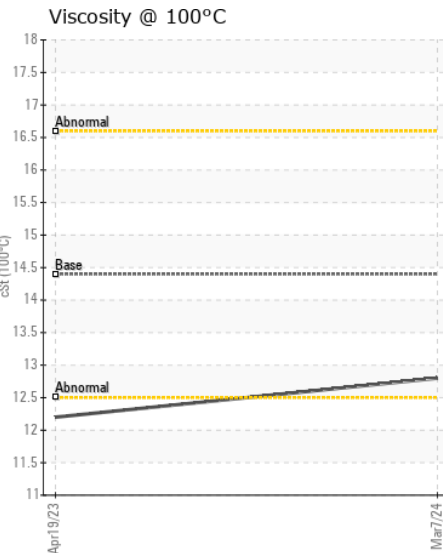
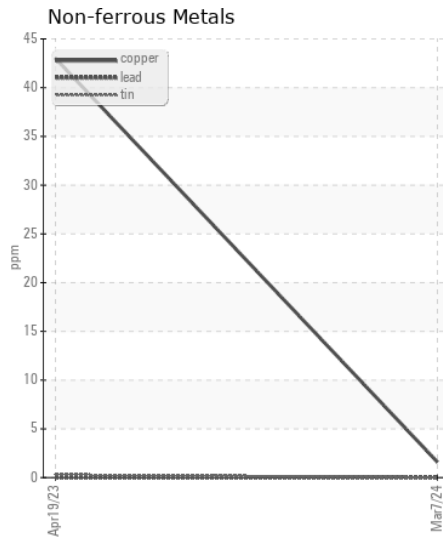
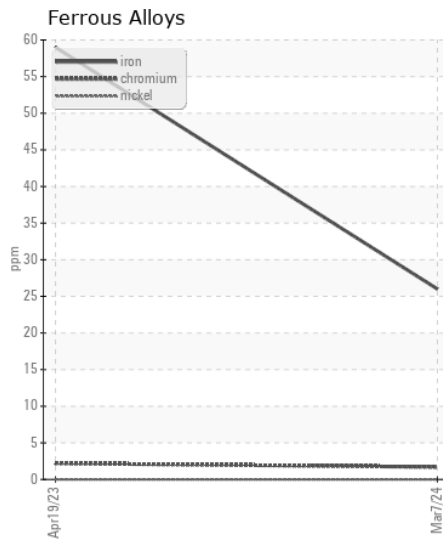
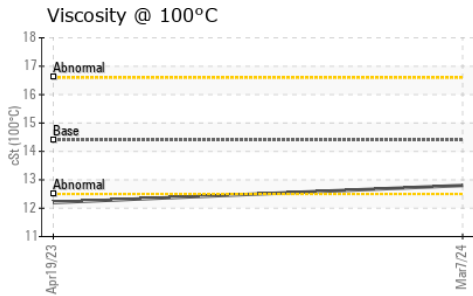
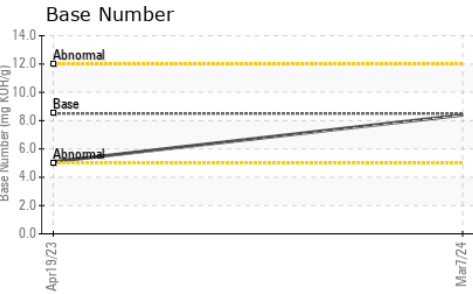
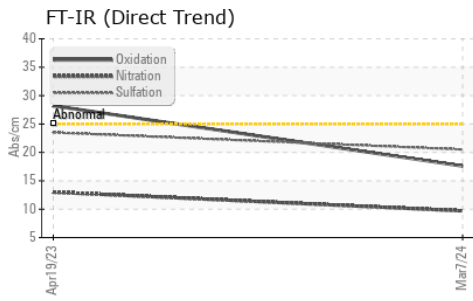
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	24	---
Potassium	ppm	ASTM D5185m	>20	7	4	---
Fuel		WC Method	>2.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.6	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	9.7	13.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	23.5	---
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	---

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	>216	<1	8	---
Boron	ppm	ASTM D5185m	250	6	33	---
Barium	ppm	ASTM D5185m	10	0	4	---
Molybdenum	ppm	ASTM D5185m	100	67	52	---
Manganese	ppm	ASTM D5185m		<1	6	---
Magnesium	ppm	ASTM D5185m	450	1014	870	---
Calcium	ppm	ASTM D5185m	3000	1163	1333	---
Phosphorus	ppm	ASTM D5185m	1150	1068	733	---
Zinc	ppm	ASTM D5185m	1350	1324	947	---
Sulfur	ppm	ASTM D5185m	4250	3912	2719	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	28.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.4	5.10	---
Visc @ 100°C	cSt	ASTM D445	14.4	12.8	12.2	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0036555
Lab Number : 06158303
Unique Number : 10993726
Test Package : FLEET

Received : 23 Apr 2024
Tested : 24 Apr 2024
Diagnosed : 24 Apr 2024 - Wes Davis

RUSH TRUCK LEASING - CLEVELAND IDEALEASE
 5 ACORN DR
 OAKWOOD VILLAGE, OH
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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)