



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FREIGHTLINER 88089
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 15W40 (21 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample
Comment: Hours=6,025)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0033857	IL0030479	IL0030408
Sample Date		Client Info		30 May 2024	25 Sep 2023	27 May 2023
Machine Age	mls	Client Info		389702	379748	368828
Oil Age	mls	Client Info		389702	362985	16763
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>130	22	18	34
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	9	6	18
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>125	2	2	8
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

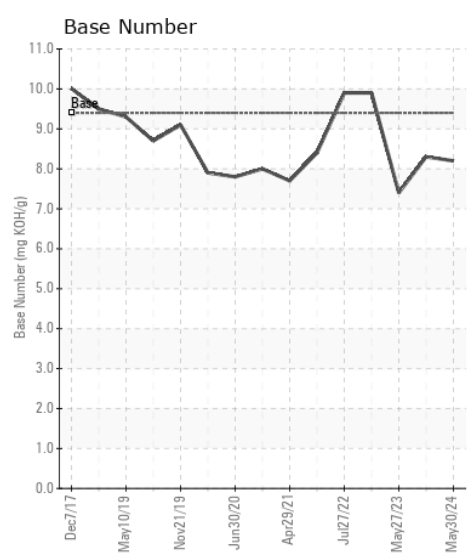
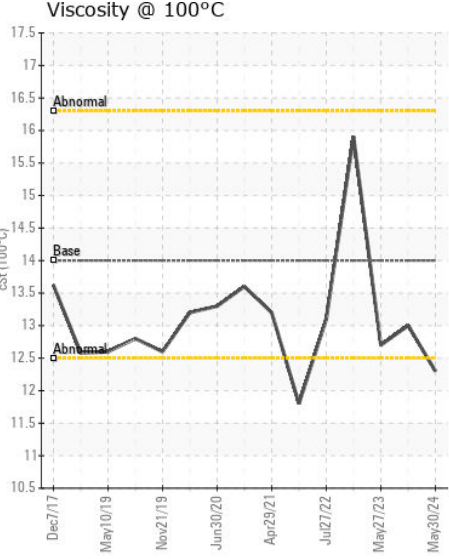
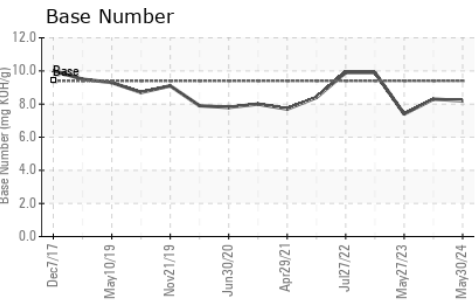
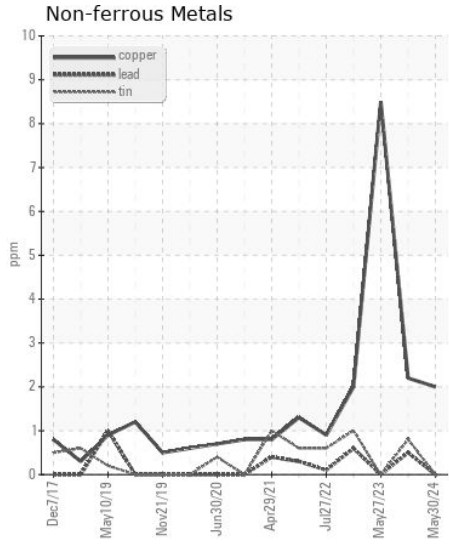
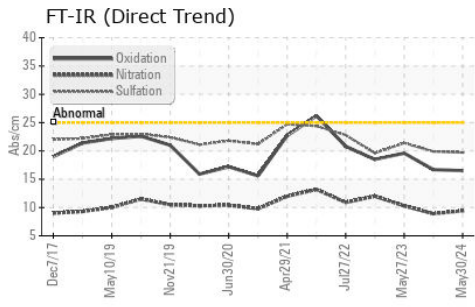
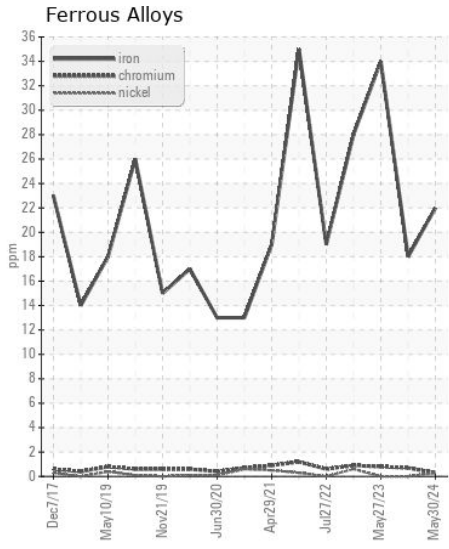
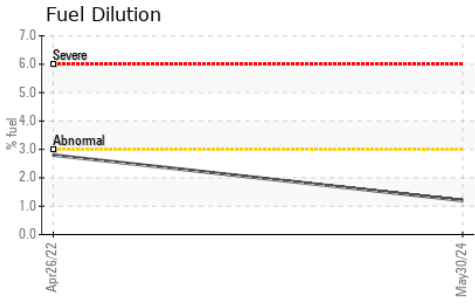
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	5	5
Potassium	ppm	ASTM D5185m	>20	36	37	17
Fuel	%	ASTM D3524	>3.0	1.2	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.4	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.4	8.9	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	19.9	21.4
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		15	15	8
Boron	ppm	ASTM D5185m	0	6	3	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	67	65	62
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	950	1010	991
Calcium	ppm	ASTM D5185m		1126	1094	1228
Phosphorus	ppm	ASTM D5185m		1102	1059	1002
Zinc	ppm	ASTM D5185m		1281	1330	1292
Sulfur	ppm	ASTM D5185m		3720	3351	3866
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	16.7	19.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.2	8.3	7.4
Visc @ 100°C	cSt	ASTM D445	14	12.3	13.0	12.7



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0033857 **Received** : 17 Jun 2024
Lab Number : 06212821 **Tested** : 20 Jun 2024
Unique Number : 11085685 **Diagnosed** : 20 Jun 2024 - Sean Felton
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

RUSH TRUCK LEASING - CHARLOTTE IDEALEASE
 1333 AMERON DR
 CHARLOTTE, NC
 US 28206
 Contact: JERRY DIXON
 dixonj@rushenterprises.com
 T: (704)333-4507
 F: (704)333-4508

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)