



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
INTERNATIONAL 441395
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Hours=2,577)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0033863	IL0026568	IL0022805
Sample Date		Client Info		16 May 2024	29 Apr 2023	08 Jun 2022
Machine Age	mls	Client Info		54218	54218	31022
Oil Age	mls	Client Info		54218	23196	13506
Filter Age	mls	Client Info		0	0	13506
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ATTENTION	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	33	25	31
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	29	38	44
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	2	1	5
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

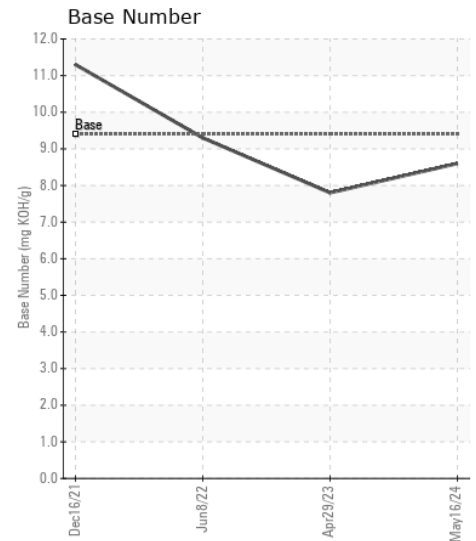
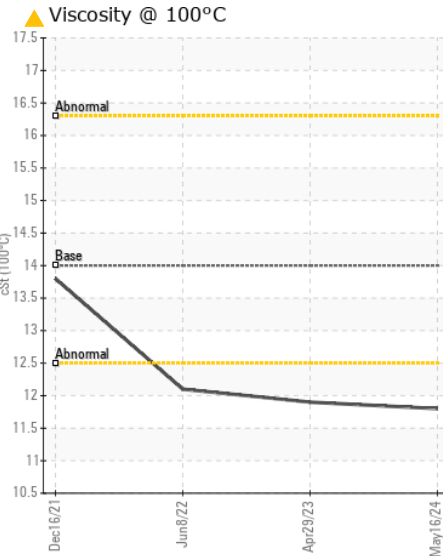
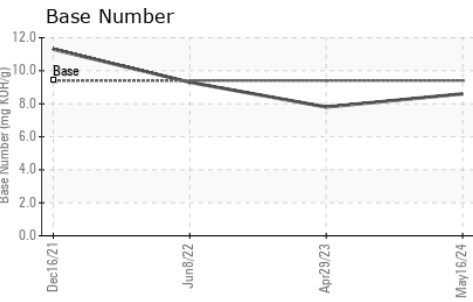
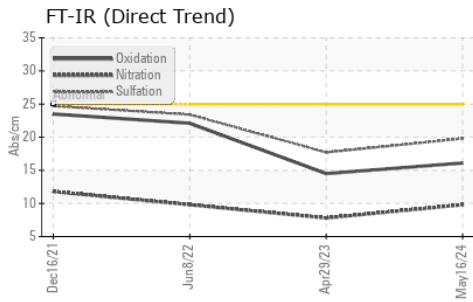
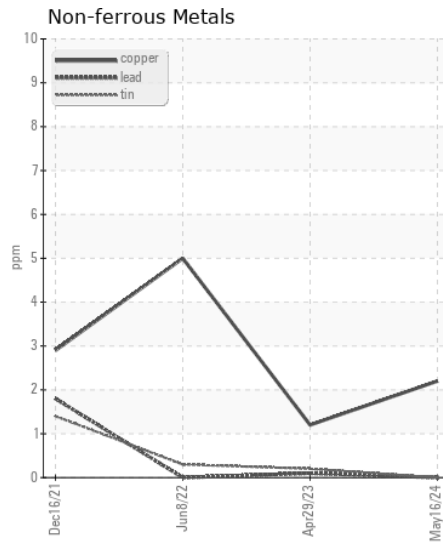
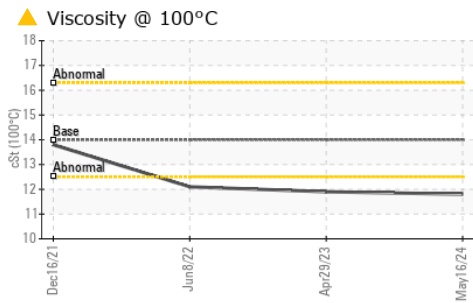
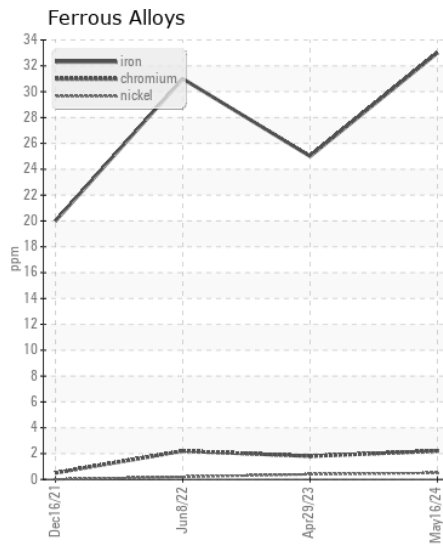
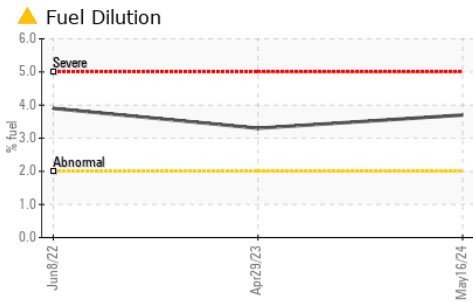
There is a moderate amount of fuel present in the oil.

Silicon	ppm	ASTM D5185m	>25	7	6	10
Potassium	ppm	ASTM D5185m	>20	61	83	117
Fuel	%	ASTM D3524	>2.0	▲ 3.7	▲ 3.3	▲ 3.9
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.8	7.8	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	17.7	23.4
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. Fuel is present in the oil and is lowering the viscosity.

Sodium	ppm	ASTM D5185m		3	0	2
Boron	ppm	ASTM D5185m	0	6	6	48
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	59	70	42
Manganese	ppm	ASTM D5185m		1	<1	1
Magnesium	ppm	ASTM D5185m	0	903	928	519
Calcium	ppm	ASTM D5185m		1049	1196	1547
Phosphorus	ppm	ASTM D5185m		994	1063	682
Zinc	ppm	ASTM D5185m		1190	1294	867
Sulfur	ppm	ASTM D5185m		3524	3637	2273
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	14.5	22.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.6	7.8	9.3
Visc @ 100°C	cSt	ASTM D445	14	▲ 11.8	● 11.9	▲ 12.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0033863 **Received** : 17 Jun 2024
Lab Number : 06212816 **Tested** : 24 Jun 2024
Unique Number : 11085680 **Diagnosed** : 24 Jun 2024 - Don Baldrige
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

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)