



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL 441342
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 15W40 (44 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample
 Comment: Hours=6106)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0033807	IL0030420	IL0021753
Sample Date		Client Info		05 Jun 2024	20 Jun 2023	16 Sep 2021
Machine Age	mls	Client Info		220161	183482	116362
Oil Age	mls	Client Info		136481	166922	17000
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	47	36	44
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	10	6	9
Lead	ppm	ASTM D5185m	>40	15	16	3
Copper	ppm	ASTM D5185m	>330	2	2	2
Tin	ppm	ASTM D5185m	>15	1	1	1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the oil.

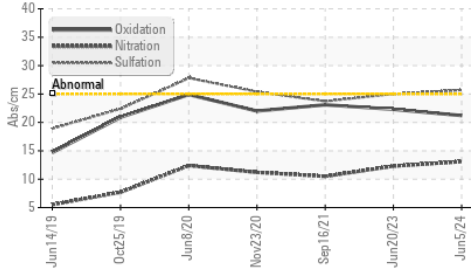
Silicon	ppm	ASTM D5185m	>25	10	6	6
Potassium	ppm	ASTM D5185m	>20	16	9	15
Fuel		WC Method	>2.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.8	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	13.1	12.3	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.7	25.0	23.7
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

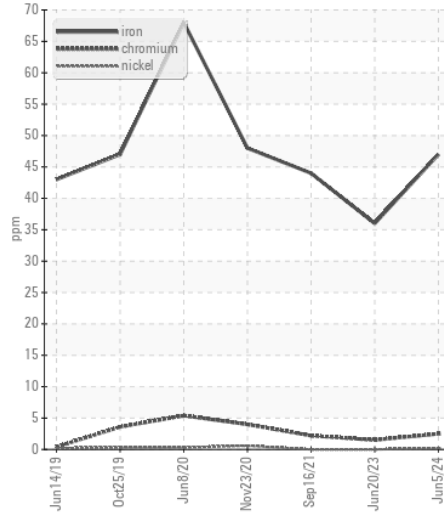
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		3	3	3
Boron	ppm	ASTM D5185m	0	4	6	30
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	65	69	39
Manganese	ppm	ASTM D5185m		1	<1	1
Magnesium	ppm	ASTM D5185m	0	989	931	512
Calcium	ppm	ASTM D5185m		1176	1392	1692
Phosphorus	ppm	ASTM D5185m		1120	1025	695
Zinc	ppm	ASTM D5185m		1327	1247	907
Sulfur	ppm	ASTM D5185m		3517	3462	2184
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.2	22.3	23.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	7.3	6.4	7.8
Visc @ 100°C	cSt	ASTM D445	14	13.3	13.1	13.5

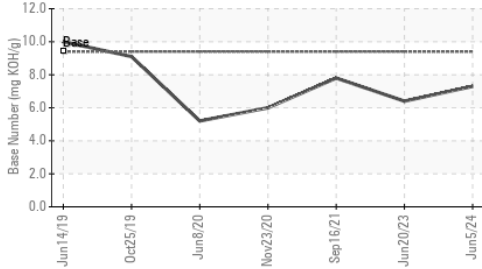
FT-IR (Direct Trend)



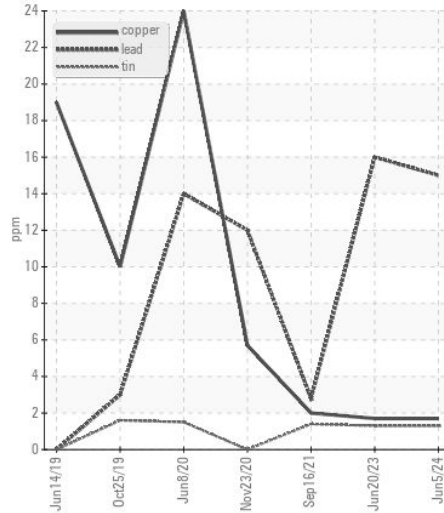
Ferrous Alloys



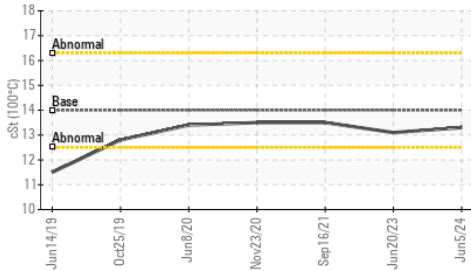
Base Number



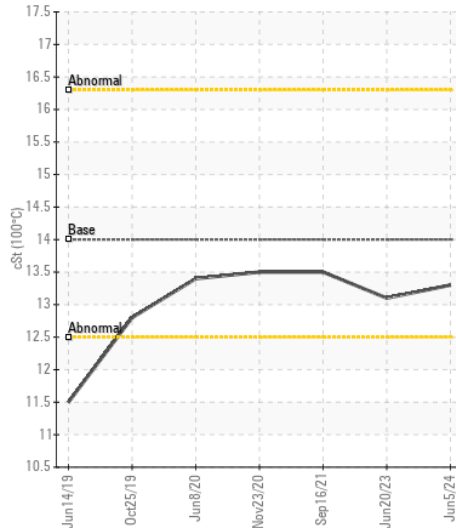
Non-ferrous Metals



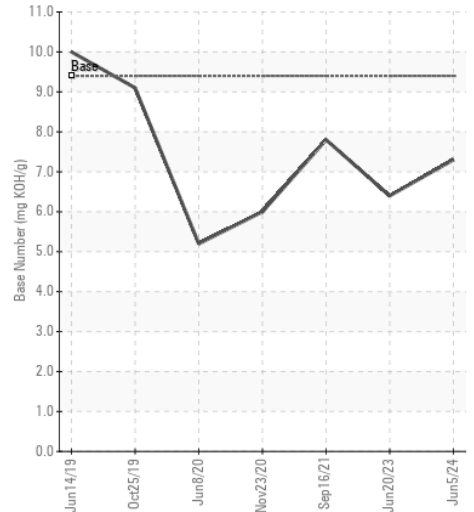
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0033807
Lab Number : 06212837
Unique Number : 11085701
Test Package : FLEET

Received : 17 Jun 2024
Tested : 19 Jun 2024
Diagnosed : 19 Jun 2024 - Angela Borella

RUSH TRUCK LEASING - CHARLOTTE IDEALEASE
 1333 AMERON DR
 CHARLOTTE, NC
 US 28206
 Contact: AMANDA MAYO (HOPSON)

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)

T: (704)333-4507
 F: (704)333-4508