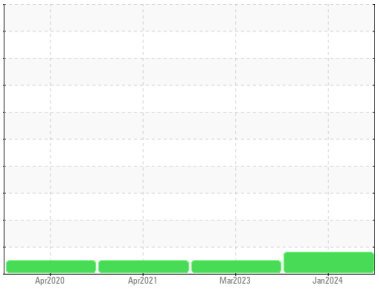
OIL ANALYSIS REPORT

Sample Rating Trend



FUEL

Machine Id
I6356
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected 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		**IL0033166**	IL0029470	IL0014652
Sample Date		Client Info		**26 Jan 2024**	18 Mar 2023	16 Apr 2021
Machine Age	mls	Client Info		**155048**	134618	0
Oil Age	mls	Client Info		**20430**	0	0
Oil Changed		Client Info		**Changed**	N/A	Changed
Sample Status				**MARGINAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
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**	24	20
Chromium	ppm	ASTM D5185m	>20	**3**	4	1
Nickel	ppm	ASTM D5185m	>4	**0**	0	<1
Titanium	ppm	ASTM D5185m		**0**	<1	<1
Silver	ppm	ASTM D5185m	>3	**0**	0	<1
Aluminum	ppm	ASTM D5185m	>20	**3**	4	3
Lead	ppm	ASTM D5185m	>40	**5**	2	1
Copper	ppm	ASTM D5185m	>330	**<1**	<1	2
Tin	ppm	ASTM D5185m	>15	**2**	2	<1
Antimony	ppm	ASTM D5185m		**---**	---	0
Vanadium	ppm	ASTM D5185m		**0**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**24**	8	90
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**75**	55	10
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	0	**656**	930	663
Calcium	ppm	ASTM D5185m		**1170**	1342	1263
Phosphorus	ppm	ASTM D5185m		**769**	1015	726
Zinc	ppm	ASTM D5185m		**905**	1251	830
Sulfur	ppm	ASTM D5185m		**2576**	3644	2431

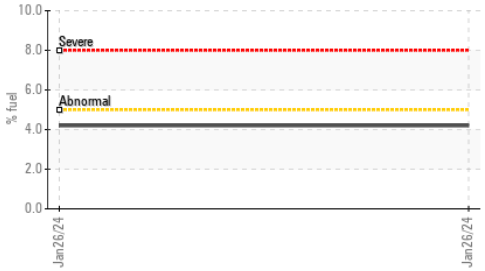
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**6**	6	6
Sodium	ppm	ASTM D5185m		**2**	<1	4
Potassium	ppm	ASTM D5185m	>20	**<1**	<1	5
Fuel	%	ASTM D3524	>5	▲ **4.2**	<1.0	<1.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**1.1**	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	**12.0**	10.0	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	**24.0**	19.9	24.6

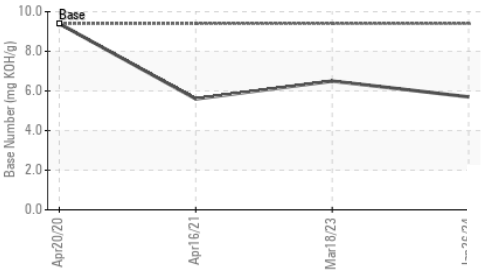
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**21.7**	16.6	19.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	**5.7**	6.5	5.6

OIL ANALYSIS REPORT

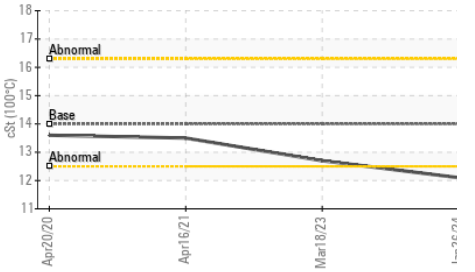
Fuel Dilution



Base Number



Viscosity @ 100°C

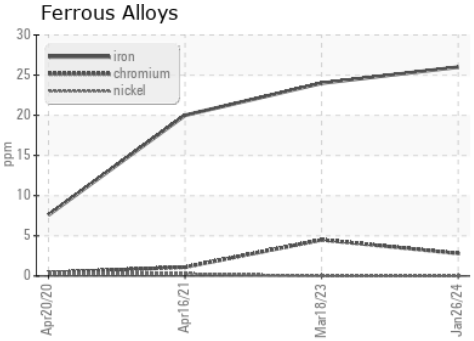


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

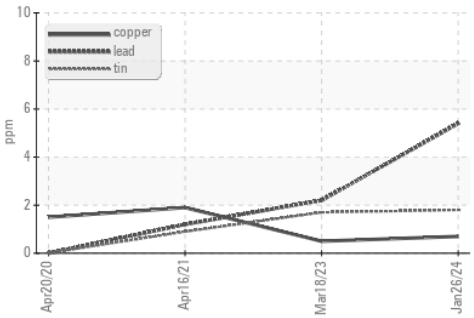
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14	**12.1**	12.7	13.5

GRAPHS

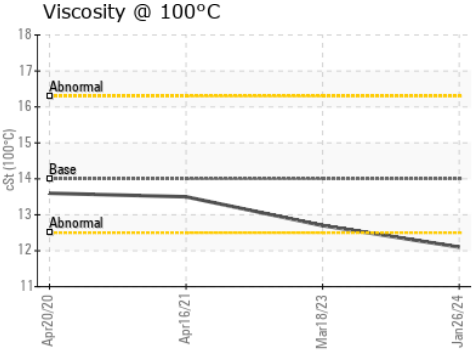
Ferrous Alloys



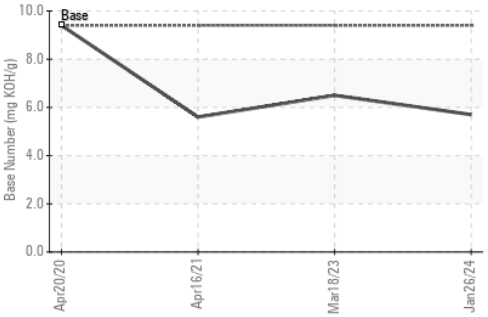
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0033166
Lab Number : 06077477
Unique Number : 10859568
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Received : 01 Feb 2024
Tested : 05 Feb 2024
Diagnosed : 05 Feb 2024 - Wes Davis

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)

RUSH TRUCK LEASING - BOISE IDEALEASE
770 WEST AMITY ROAD
BOISE, ID
US 83705
Contact: MATT BORCHARDT
borchardtm@rushenterprises.com
T:
F: (208)639-4859