OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Machine Id
846-4536
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

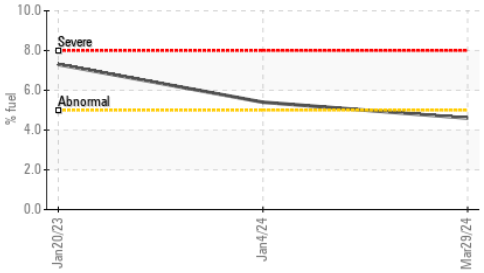
Light fuel dilution occurring. No other contaminants were detected in the oil.

FLUID CONDITION

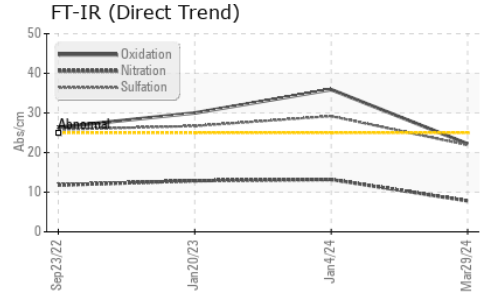
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0018075	RPL0011478	RPL0009306
Sample Date		Client Info		29 Mar 2024	04 Jan 2024	20 Jan 2023
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		860	86711	25924
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				MARGINAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	13	50	73
Chromium	ppm	ASTM D5185m	>20	<1	1	3
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	9	33	61
Lead	ppm	ASTM D5185m	>40	1	1	4
Copper	ppm	ASTM D5185m	>330	7	27	96
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	4	7	10
Potassium	ppm	ASTM D5185m	>20	14	67	148
Fuel	%	ASTM D3524	>5	▲ 4.6	▲ 5.4	▲ 7.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.9	1
Nitration	Abs/cm	*ASTM D7624	>20	7.8	13.2	12.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	29.2	26.7
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
Sodium	ppm	ASTM D5185m		1	<1	4
Boron	ppm	ASTM D5185m		83	20	22
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		69	35	32
Manganese	ppm	ASTM D5185m		<1	1	1
Magnesium	ppm	ASTM D5185m		607	439	496
Calcium	ppm	ASTM D5185m		1615	1404	1682
Phosphorus	ppm	ASTM D5185m		803	623	648
Zinc	ppm	ASTM D5185m		970	773	860
Sulfur	ppm	ASTM D5185m		3422	1878	2446
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.2	35.9	30.0
Base Number (BN)	mg KOH/g	ASTM D2896		8.5	4.3	5.9
Visc @ 100°C	cSt	ASTM D445		11.9	10.9	11.7

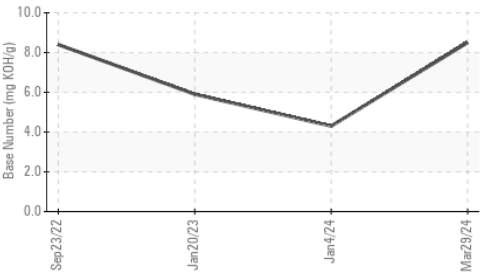
Fuel Dilution



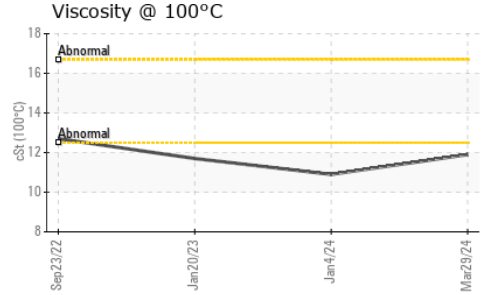
FT-IR (Direct Trend)



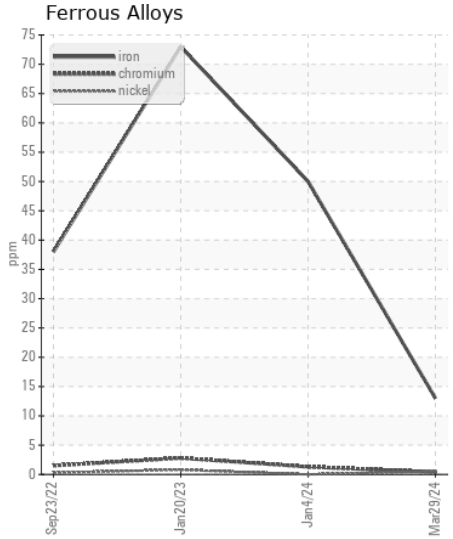
Base Number



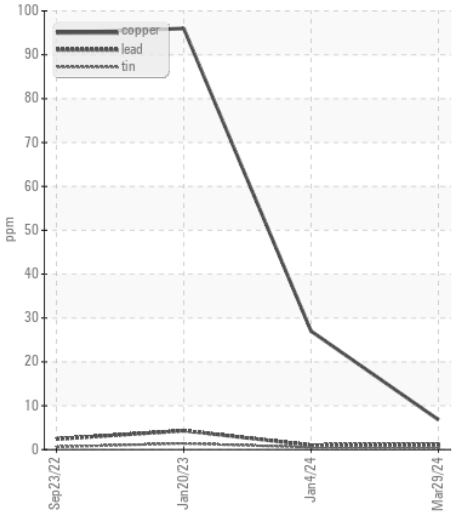
Viscosity @ 100°C



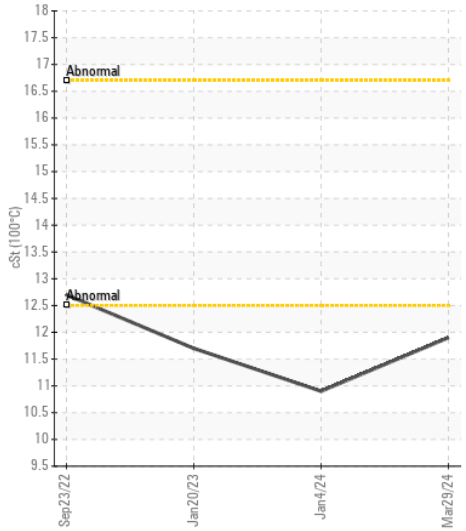
Ferrous Alloys



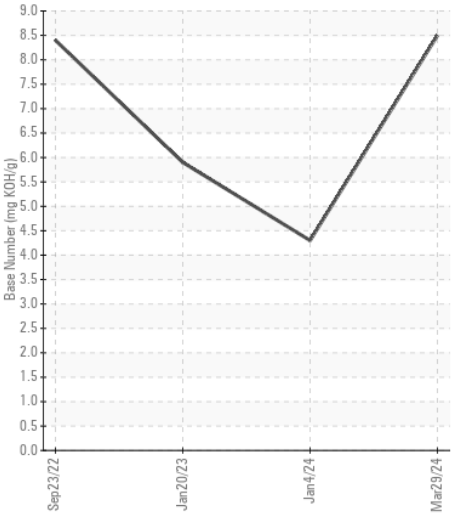
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0018075
Lab Number : 06145648
Unique Number : 10970456
Test Package : FLEET (Additional Tests: PercentFuel)

Received : 11 Apr 2024
Tested : 15 Apr 2024
Diagnosed : 15 Apr 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)

RTL PACLEASE - 7007 - Fontana
3121 South Riverside
Bloomington, CA
US 92316
Contact: Rudy Trevizo
TrevizoR@RushEnterprises.Com
T: (909)829-1044
F: