



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
8327910
 Component
Diesel Engine
 Fluid
VALVOLINE 15W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0035056	IL05771169	---
Sample Date		Client Info		03 Feb 2024	19 Feb 2023	---
Machine Age	mls	Client Info		95111	29844	---
Oil Age	mls	Client Info		0	0	---
Filter Age	mls	Client Info		0	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				ATTENTION	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	33	40	---
Chromium	ppm	ASTM D5185m	>20	1	1	---
Nickel	ppm	ASTM D5185m	>4	0	<1	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	<1	<1	---
Aluminum	ppm	ASTM D5185m	>20	7	21	---
Lead	ppm	ASTM D5185m	>40	7	6	---
Copper	ppm	ASTM D5185m	>330	3	23	---
Tin	ppm	ASTM D5185m	>15	1	3	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

There is no indication of any contamination in the oil.

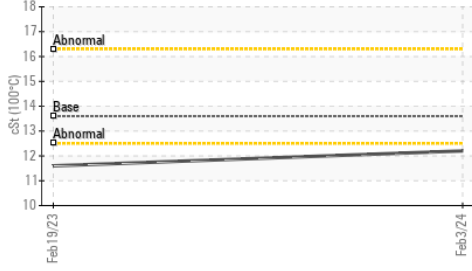
Silicon	ppm	ASTM D5185m	>25	7	38	---
Potassium	ppm	ASTM D5185m	>20	24	63	---
Fuel	%	ASTM D3524	>5	<1.0	1.2	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	10.7	9.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	22.8	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

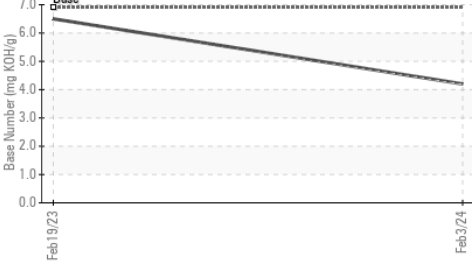
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		0	3	---
Boron	ppm	ASTM D5185m	39	20	28	---
Barium	ppm	ASTM D5185m	1	25	5	---
Molybdenum	ppm	ASTM D5185m	49	69	60	---
Manganese	ppm	ASTM D5185m	1	<1	5	---
Magnesium	ppm	ASTM D5185m	616	615	416	---
Calcium	ppm	ASTM D5185m	1554	1255	1642	---
Phosphorus	ppm	ASTM D5185m	899	790	860	---
Zinc	ppm	ASTM D5185m	1069	865	1155	---
Sulfur	ppm	ASTM D5185m	2624	2548	3071	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.3	20.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	4.2	6.5	---
Visc @ 100°C	cSt	ASTM D445	13.6	▲ 12.2	11.6	---

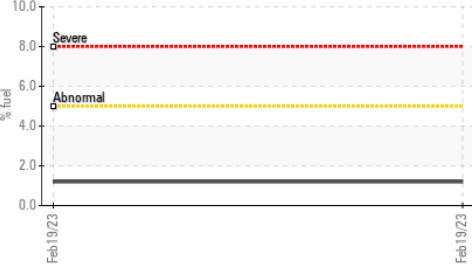
▲ Viscosity @ 100°C



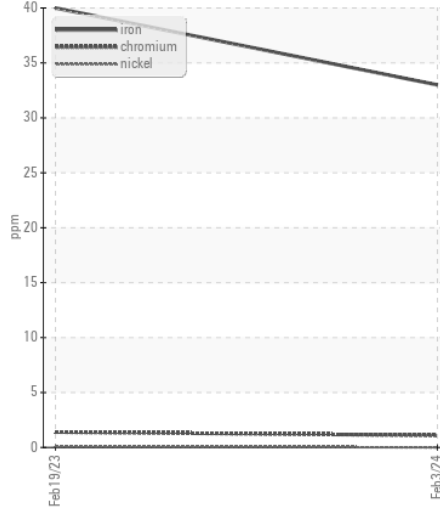
Base Number



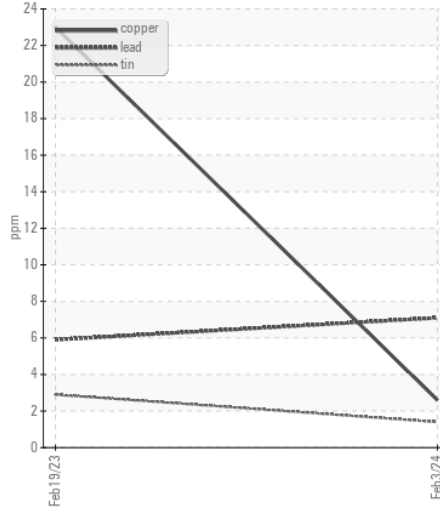
Fuel Dilution



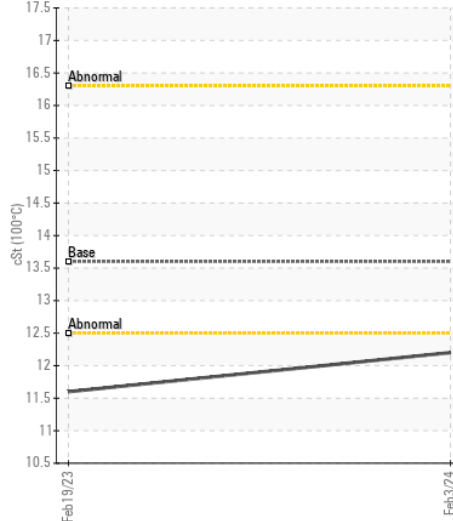
Ferrous Alloys



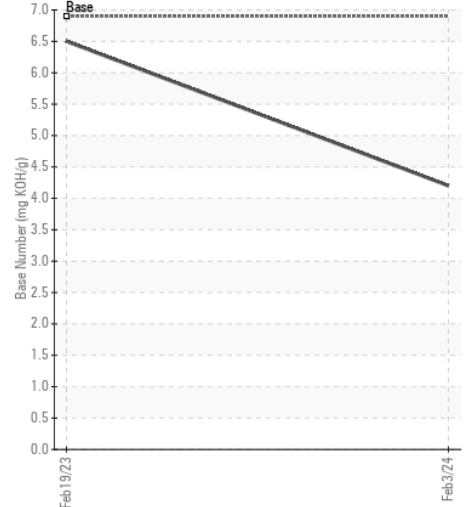
Non-ferrous Metals



▲ Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : IL0035056 Received : 09 Feb 2024
 Lab Number : 06084581 Tested : 12 Feb 2024
 Unique Number : 10872026 Diagnosed : 12 Feb 2024 - Don Baldrige
 Test Package : FLEET (Additional Tests: FuelDilution)

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 TAMPA, FL 33610-9565
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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)