



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[02008505]
Machine Id
VOLVO A30G 752477
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 40 (11 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W02008505)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0001095	ML0001406	---
Sample Date		Client Info		03 Jul 2024	18 Apr 2024	---
Machine Age	hrs	Client Info		3772	3475	---
Oil Age	hrs	Client Info		297	3475	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	SEVERE	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	15	99	---
Chromium	ppm	ASTM D5185m	>20	<1	2	---
Nickel	ppm	ASTM D5185m	>2	0	5	---
Titanium	ppm	ASTM D5185m		<1	4	---
Silver	ppm	ASTM D5185m	>2	<1	0	---
Aluminum	ppm	ASTM D5185m	>25	8	76	---
Lead	ppm	ASTM D5185m	>40	3	18	---
Copper	ppm	ASTM D5185m	>330	29	137	---
Tin	ppm	ASTM D5185m	>15	2	12	---
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.

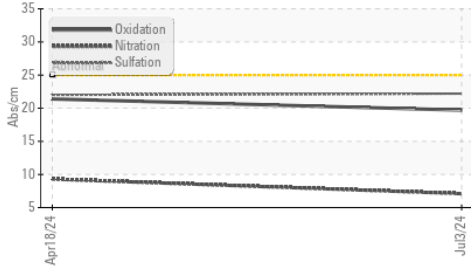
Silicon	ppm	ASTM D5185m	>25	20	177	---
Potassium	ppm	ASTM D5185m	>20	1	10	---
Fuel		WC Method	>6.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.2	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	7.1	9.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	22.0	---
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

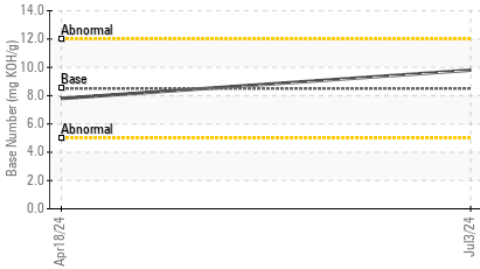
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>216	4	19	---
Boron	ppm	ASTM D5185m	250	37	31	---
Barium	ppm	ASTM D5185m	10	0	<1	---
Molybdenum	ppm	ASTM D5185m	100	40	46	---
Manganese	ppm	ASTM D5185m		<1	3	---
Magnesium	ppm	ASTM D5185m	450	561	558	---
Calcium	ppm	ASTM D5185m	3000	1686	1840	---
Phosphorus	ppm	ASTM D5185m	1150	912	801	---
Zinc	ppm	ASTM D5185m	1350	1062	941	---
Sulfur	ppm	ASTM D5185m	4250	3167	2975	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7	21.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.8	7.8	---
Visc @ 100°C	cSt	ASTM D445	14.4	13.0	12.7	---

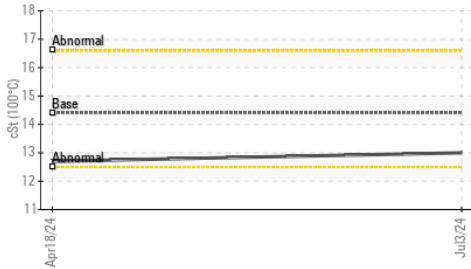
FT-IR (Direct Trend)



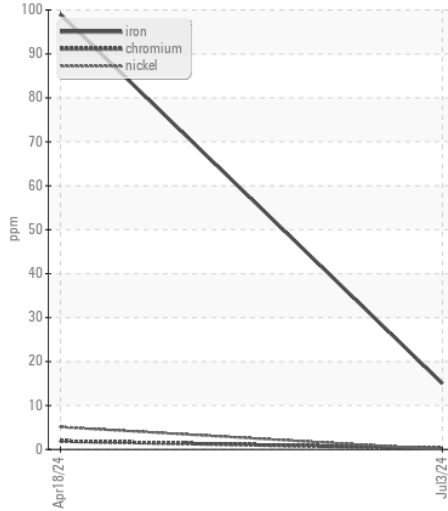
Base Number



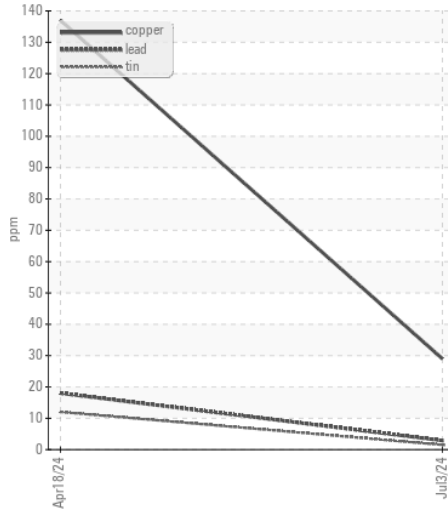
Viscosity @ 100°C



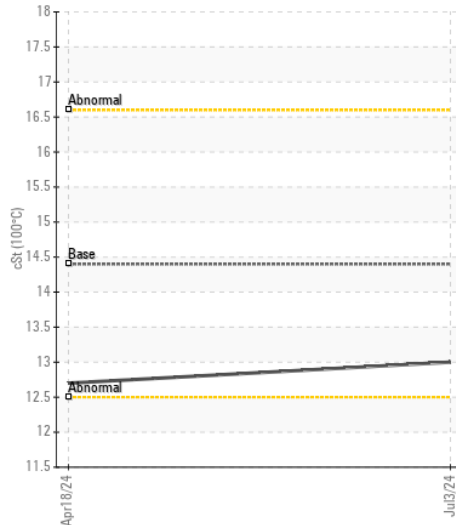
Ferrous Alloys



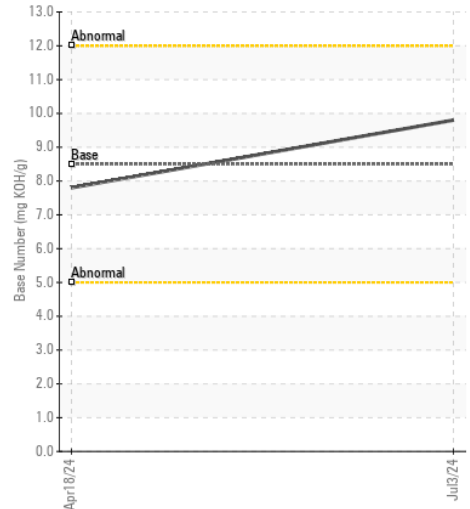
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0001095 **Received** : 05 Jul 2024
Lab Number : 06229402 **Tested** : 09 Jul 2024
Unique Number : 11112895 **Diagnosed** : 09 Jul 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: TBN)

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)

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