WESTRAC WA SOS Lab - 128 Great Eastern Highway (next to Institute)
South Guildford, WA 6055 AUS
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Certified System Quality ISO 9001 SAI GLOBAL

ENGINE **EQUIP NUM: CWT22** **SERIAL NUMBER: A40DV13733**

VOLVO A40D_VOLVO

T08P-54365-0711
SAMPLE SHIP TIME (days) : 11
CAPE MINING
CAPE MINING_118
BODDINGTON
LOCATION: BODDINGTON
RECEIVED DATE: 30-Dec-24

Monitor Compartment

Interp By: James Durning
Interpreted On: 30-Dec-24

Fluid hours not reported. A trace of fuel was detected in this oil. Monitor. All other test results appear normal. For enquiries regarding this evaluation, please contact Jim Durning Ph 9377 9757

SAMPLE INFORMATION

Sampled Date	19-Dec-24	05-Jun-24	11-Oct-23	24-Sep-23
Sample Id	T08P-54365-0711	T08P-54164-1303	T08P-53289-1913	T08P-53278-0539
Lab Date	30-Dec-24	12-Jun-24	16-Oct-23	05-Oct-23
Meter [Hr]	14248.0	14038.0	13804.0	13774.0
Comp Meter [Hr]	14248.0	14038.0	13804.0	13774.0
Meter On Fluid	0	264.0	30.0	308.0
Fluid Brand	TOTAL	TOTAL	TOTAL	TOTAL
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type	RUBIA TIR 7400	RUBIA TIR 7400	RUBIA TIR 7400	RUBIA TIR 7400
Fluid Change	Y	Y	N	Y
Filter Change	Y	Y	N	Y
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

A trace of fuel was detected in this oil. Monitor. All other test results appear normal. For enquiries regarding this evaluation, please contact Jim Durning Ph 9377 9757

For additional sample history, go to: S.O.S WEB

CONDITION-CONTAMINATION

		19-Dec-24	05-Jun-24	11-Oct-23	24-Sep-23
OIL CONDITION - ASTM E2412					
ST	Soot	10	13	0	11
OXI	Oxidation	18	15	14	18
SUL	Sulfur Products	21	19	18	21
NIT	Nitration	6	7	5	6
VISCOSITY (Centistokes) ASTM D445					
V100	Viscosity at 100 C	12.74	12.16		
VISCOSITY (Centistokes) ASTM D445					
V40	Viscosity at 40 C	90.35	86.99	94.28	84.61
CRACKLE TEST					
W	Water	N	N	N	N
FUEL					
F	Fuel	T	T	N	T
FUEL CONTAMINATION					
PFc	Percent Fuel	2.4	2.74	<2	2.35

OIL CLEANLINESS

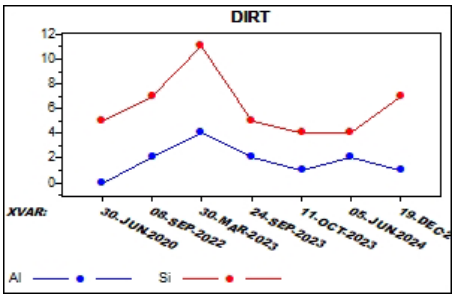
		19-Dec-24	05-Jun-24	11-Oct-23	24-Sep-23
PQI					
PQI	PQ Index	0	0	1	1

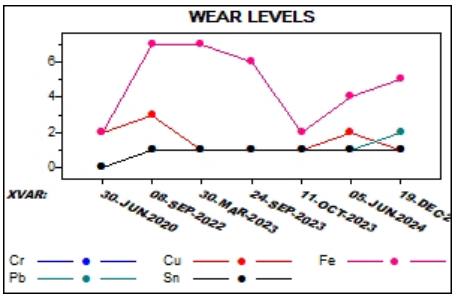
ADDITIVES-WEAR LEVELS

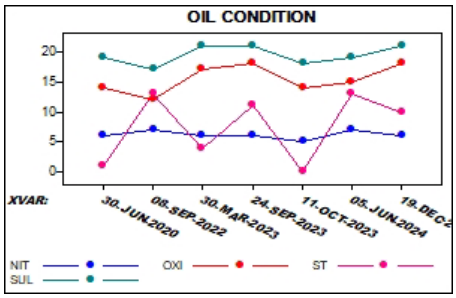
		19-Dec-24	05-Jun-24	11-Oct-23	24-Sep-23
ELEMENTS (PPM) ASTM D5185					
Cu	Copper	1	2	<1	<1
Fe	Iron	5	4	2	6
Cr	Chromium	<1	<1	<1	<1
Al	Aluminum	1	2	1	2
Pb	Lead	2	1	<1	<1
Sn	Tin	<1	<1	<1	<1
Si	Silicon	7	4	4	5
Na	Sodium	3	2	<1	2
K	Potassium	<1	<1	<1	<1
Mo	Molybdenum	35	32	30	42
Ni	Nickel	<1	<1	<1	<1
Ag	Silver	<1	<1	<1	<1
Ti	Titanium	<1	<1	<1	<1
V	Vanadium	<1	<1	0	0
Mn	Manganese	<1	<1	0	0
Cd	Cadmium	0	0	0	0
Ca	Calcium	1850	2344	2232	1462
P	Phosphorus	803	842	816	784
Zn	Zinc	941	968	951	907
Mg	Magnesium	470	310	286	551
Ba	Barium	<1	<1	0	0
B	Boron	48	50	52	44
Sb	Antimony	0	0	0	0
Li	Lithium	<1	<1	<1	<1

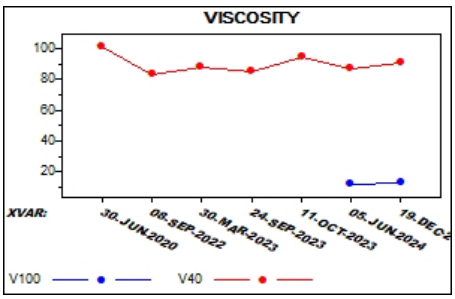
ENGINE
SERIAL NUMBER: A40DV13733
EQUIP NUM: CWT22
VOLVO A40D_VOLVO

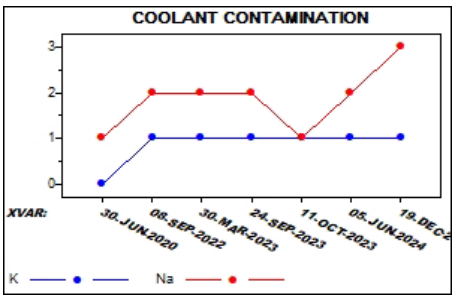
T08P-54365-0711
Monitor Compartment











Report Comment

NOTICE: This analysis is intended as an aid in predicting mechanical wear and is based upon the supplied information and the results presented in this report. All reported values are tested according to in-house test methods. The results are on an "as received" sample basis. The information supplied by the client is listed in the Sample Information panel of the above report. No guarantee, expressed or implied, is made against failure of this piece of equipment or component.

Result Explanation Section

NATA Accredited Laboratory
Number: 20398
Accredited for compliance with ISO/IEC 17025 - Testing