

System: DIESEL ENGINE
 Sump Capacity: 85 L
 Lubricant: ATLAS PAROIL E MISS.GREEN SAE 15W40
 Labocodenbr: 109830-VJ.1
 Samplenumbr: 13.10.22 A011
 Labelnummer: 00706218
 Date sample drawn: 3.10.2022
 Sampling: by client

Customer: ATLAS COPCO RENTAL EUROP
 Luc Despeghel
 Address: INDUSTRIEWEG 1F
 B- 2850 BOOM
 Your customer: 439293/14668
 Your ref.: FR.439293/14668 PTS1600

Diagnostic



Oil



Pollution



Wear



Indications of oxidation in the oil (overheated oil, low oil level ?). High viscosity comparing to the nominal value. Pollution of the oil by a huge amount of silicon. Attention: high content of iron. Aluminium and lead content above the normal value.

Action

Results:	Method*	Unit	Current sample	13.10.22 A011				
Analysis date			13/10/2022	18/11/2021	18/10/2021	4/01/2021	9/04/2019	5/07/2018
Date of receipt			13/10/2022	18/11/2021	18/10/2021	4/01/2021	9/04/2019	5/07/2018
Sample date			3/10/2022	9/11/2021	1/09/2021	26/11/2020	3/04/2019	8/05/2017
H/Km Oil			? H	829 H	440 H	500 H	300 H	615 H
H/Km total			5253 H	4266 H	3879 H	3437 H	1932 H	615 H
Top up			?	?	?	85	?	?

Oil Condition:

Viscosity at 40°C	ASTM D7279	cSt						
Viscosity at 100°C	ASTM D7279	cSt	16.7	14.4	14.6	13.7	13.2	14.8
Viscosity-index	ASTM D2270							
Fuel dilution	ASTM D7593	%	0.52	0.50	0.41	0.45	0.29	0.37
AN	ASTM D8045	mg KOH/g						
BN	ASTM D2896B	mg KOH/g						
Oxidation	ASTM E2412 (A)	Abs/0.1mm	33.0	15.6	17.3	13.2	12.6	11.0
Nitration	ASTM E2412	Abs/0.1mm	14.4	8.9	8.6	7.1	7.5	4.2
PMCC	ASTM D93	°C						
COC	ASTM D92B	°C						
Color	ASTM D1500							

Additives:

Ba: Barium	ASTM D5185 (A)	ppm	< 5	< 5	< 5	< 5	< 5	< 5
Ca: Calcium	ASTM D5185 (A)	ppm	2870	2410	2040	3610	3570	2000
Mg: Magnesium	ASTM D5185 (A)	ppm	195	165	422	151	98	393
P: Phosphorus	ASTM D5185 (A)	ppm	1322	1125	1098	1180	1143	1221
S: Sulfur	ASTM D5185	%	0.33	0.36	0.30	0.37	0.42	0.38
Zn: Zink	ASTM D5185 (A)	ppm	1562	1378	1324	1370	1283	1366

Pollution:

Si: Silicium	ASTM D5185 (A)	ppm	23	< 10	< 10	< 10	< 10	< 10
B: Boron	ASTM D5185	ppm	70	51	58	283	19	183
Na: Sodium	ASTM D5185 (A)	ppm	7	5	< 5	< 5	< 5	< 5
Water	WI-0002	%	< 0.04	< 0.04	0.05	< 0.04	< 0.04	< 0.04
Water (KF)	ASTM D6304C	ppm						
Soot content	ASTM E2412 (A)	%	0.51	0.11	0.15	0.12	0.19	0.10
Antifreeze	ASTM D2982A		Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
PC ISO grade	ASTM D7647 (A)							
PC Cleanliness class	ASTM D7647 (A)							
Insolubles	ASTM D4898	mg/l						

Wear metals:

Al: Aluminium	ASTM D5185 (A)	ppm	14	< 5	9	7	9	< 5
Cr: Chromium	ASTM D5185 (A)	ppm	< 5	< 5	< 5	< 5	< 5	< 5
Cu: Copper	ASTM D5185 (A)	ppm	5	< 5	< 5	< 5	< 5	< 5
Fe: Iron	ASTM D5185 (A)	ppm	144	17	44	32	94	5
Mo: Molybdenum	ASTM D5185 (A)	ppm	112	93	67	55	15	69
Pb: Lead	ASTM D5185 (A)	ppm	53	< 5	< 5	< 5	< 5	< 5
Sn: Tin	ASTM D5185	ppm	3	2	3	< 1	1	< 1
PQ index	WI-0021							

These conclusions are based on the supplied samples and information where the representativeness and validity cannot be guaranteed. Opinions and interpretation are outside the scope of accreditation. The measurement uncertainty is available on request. Samples are destroyed 2 months after receipt. The report may only be reproduced complete. Distribution on the responsibility of the client. *Methods are modified according to specified method. (A)Accreditation. (U)Outsourced.

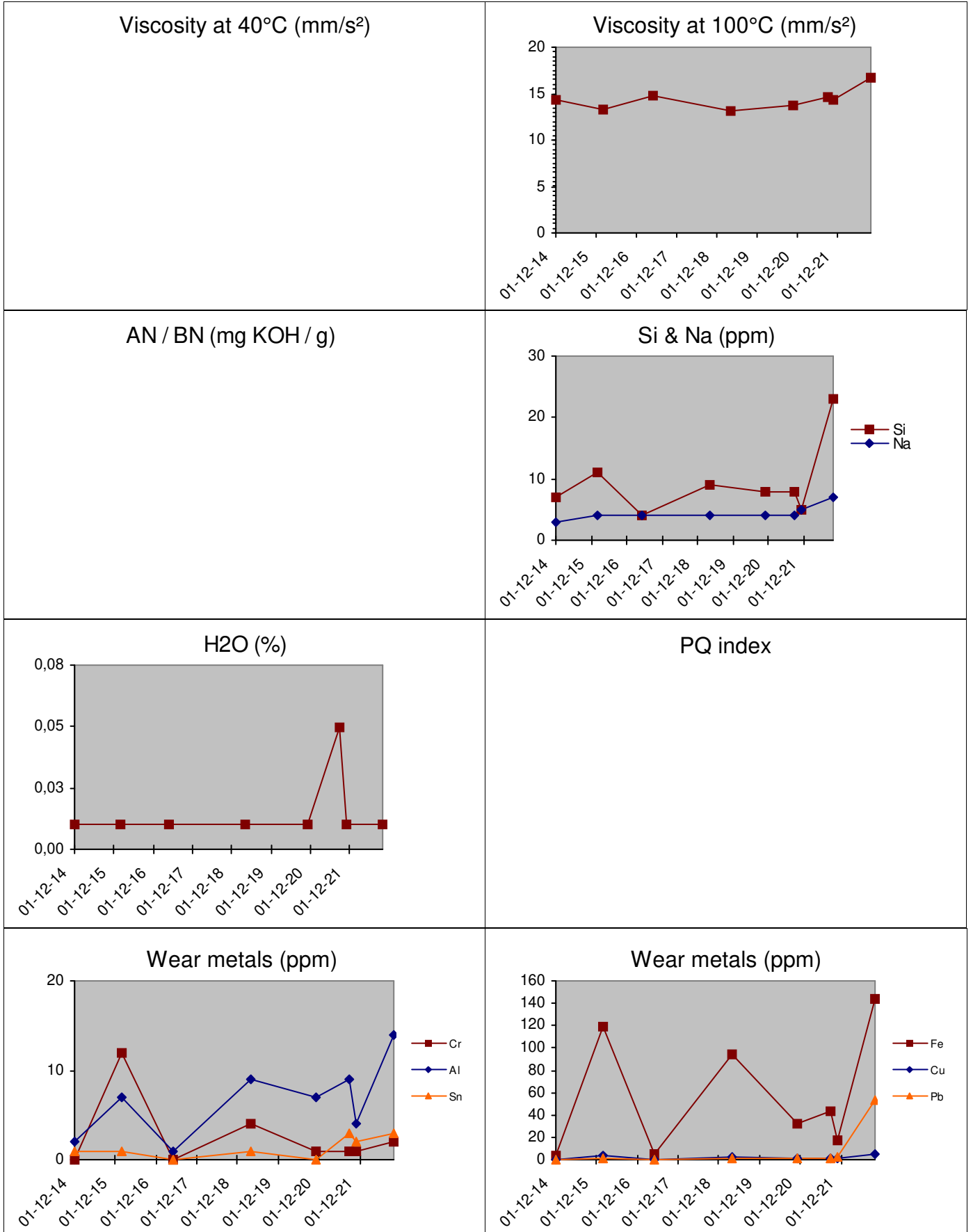
Batch: 2228703 - p.1 / 2

Diagnosis: ANW

Date of issue: 14/10/2022

B118 AC RENTAL EUROPE.

History 13.10.22 A011



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