

System: DIESEL ENGINE
Sump Capacity (k): 50 L
Lubricant (k): ATLAS PAROIL E MISS.GREEN SAE 15W40
Labocodenbr: 109830-UU.1
Samplenummer: 13.11.23 A015
Labelnummer: 00741454
Date sample drawn (k): 21.10.2022
Sampling: by client

Customer (k): ATLAS COPCO RENTAL EUROP
Luc Despeghel
Address (k): INDUSTRIEWEG 1F
B- 2850 BOOM
Your customer (k): 501910/14071
Your ref. (k): D/501910/14071/QAS500



Oil



Pollution



Wear



Diagnostic

We notice an increased calcium content and a decreased magnesium content. Wear elements within tolerance.

Attention

Results:	Method*	Unit	Current sample						13.11.23 A015
Analysis date			13/11/2023	18/02/2020	15/01/2019	4/12/2018	13/11/2018	27/07/2018	
Date of receipt			13/11/2023	18/02/2020	15/01/2019	4/12/2018	13/11/2018	27/07/2018	
Sample date (k)			21/10/2022	6/02/2020	9/01/2019	26/11/2018	8/11/2018	23/07/2018	
H/Km Oil (k)			12424 H	8545 H	500 H	324 H	510 H	481 H	
H/Km total (k)			12424 H	8545 H	8137 H	7609 H	7285 H	6230 H	
Top up (k)			55	50	30	40	40	42	

Oil Condition:

Viscosity at 40°C	ASTM D7279	cSt						
Viscosity at 100°C	ASTM D7279	cSt	13.4	12.7	12.6	12.9	12.6	12.4
Viscosity-index	ASTM D2270							
Fuel dilution	ASTM D7593	%	1.21	0.56	1.37	0.75	1.31	2.05
AN	ASTM D8045	mg KOH/g						
BN	ASTM D2896B	mg KOH/g						
Oxidation	ASTM E2412 (A)	Abs/0.1mm	13.0	15.6	15.6	14.8	15.8	15.6
Nitration	ASTM E2412	Abs/0.1mm	8.3	6.4	7.0	5.8	6.5	7.1
PMCC	ASTM D93	°C						
COC	ASTM D92B	°C						
Color	ASTM D1500							

Additives:

Ba: Barium	ASTM D5185	ppm	1	< 1	< 1	< 1	< 1	< 1
Ca: Calcium	ASTM D5185 (A)	ppm	2400	1980	1850	1700	1820	1800
Mg: Magnesium	ASTM D5185 (A)	ppm	10	437	397	375	398	387
P: Phosphorus	ASTM D5185 (A)	ppm	1060	1194	1128	1031	1120	1055
S: Sulfur	ASTM D5185	%	0.33	0.40	0.34	0.29	0.33	0.33
Zn: Zink	ASTM D5185 (A)	ppm	1127	1387	1262	1245	1283	1315

Pollution:

Si: Silicium	ASTM D5185 (A)	ppm	< 10	< 10	< 10	< 10	< 10	< 10
B: Boron	ASTM D5185	ppm	101	129	82	96	80	86
Na: Sodium	ASTM D5185 (A)	ppm	< 5	< 5	7	< 5	< 5	< 5
Water	WI-0002	%	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Water (KF)	ASTM D6304C	ppm						
Soot content	ASTM E2412 (A)	%	0.04	0.11	0.23	0.12	0.13	0.14
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	< 5	< 5	< 5	< 5	< 5	< 5
Cr: Chromium	ASTM D5185 (A)	ppm	< 5	< 5	< 5	< 5	< 5	< 5
Cu: Copper	ASTM D5185 (A)	ppm	< 5	6	< 5	< 5	61	311
Fe: Iron	ASTM D5185 (A)	ppm	< 5	14	17	7	12	20
Mo: Molybdenum	ASTM D5185 (A)	ppm	95	71	62	62	65	66
Pb: Lead	ASTM D5185 (A)	ppm	< 5	< 5	< 5	< 5	< 5	< 5
Sn: Tin	ASTM D5185	ppm	1	1	1	< 1	1	2
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. (k) Received info from customer.

Batch: 2331801 - p.1 / 3

Diagnosis: ANW

Date of issue: 14/11/2023

B118 AC RENTAL EUROPE.

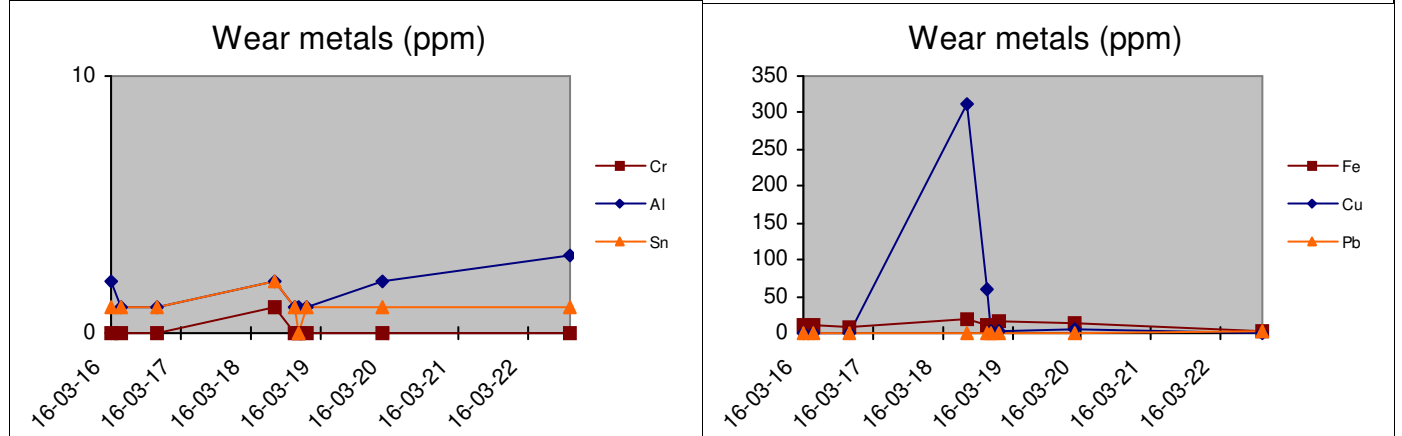
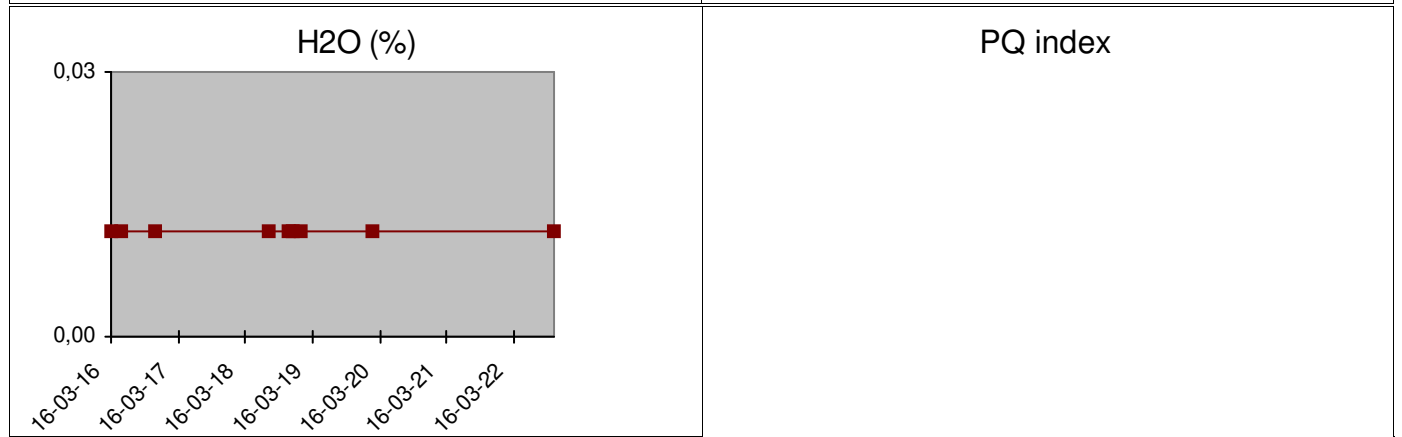
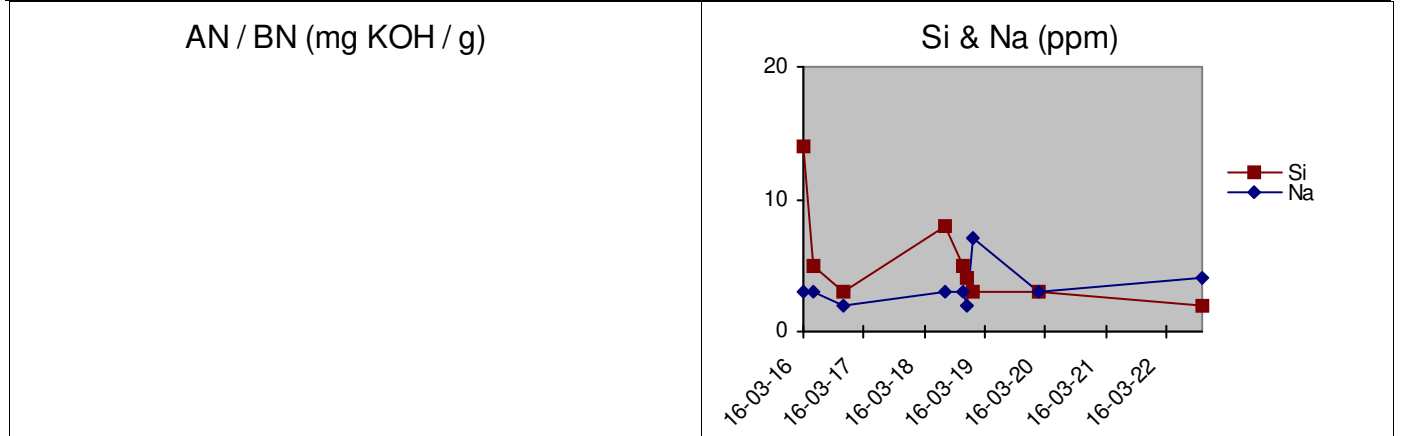
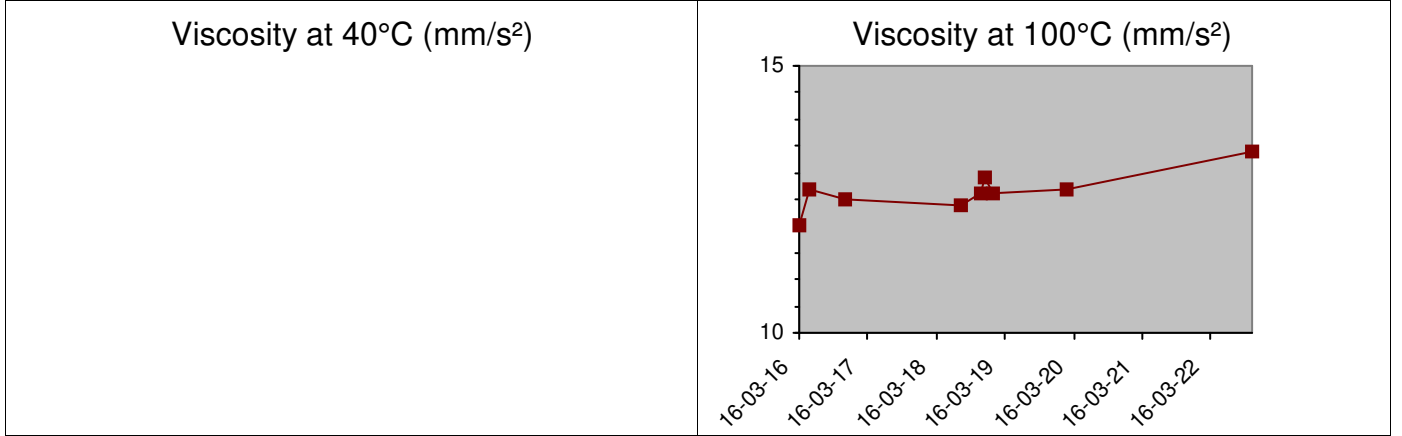


History lubricant:

13.11.23 A015

1	13.11.23 A015	ATLAS PAROIL E MISS.GREEN SAE 15W40
2	18.02.20 A021	ATLAS PAROIL E MISS.GREEN SAE 15W40
3	15.01.19 A022	ATLAS PAROIL E MISS.GREEN SAE 15W40
4	04.12.18 A004	ATLAS PAROIL E MISS.GREEN SAE 15W40
5	13.11.18 A006	ATLAS PAROIL E MISS.GREEN SAE 15W40
6	27.07.18 A004	ATLAS PAROIL E SAE 15W40

History 13.11.23 A015



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, (k) Received info from customer.