

Unit ID **Forming press**  
 Component **Recirculating lubrication system**  
 Current sample number **1700882**



OELCHECK GmbH · Kerschelweg 28 · 83098 Brannenburg

Machine type: **Press**  
 Manufacturer: **ABC**  
 Oil brand name: **Mobil Mobilgear 629**  
 Oil quantity in system: **850 l**

Example report  
 Analysis scope: Analysis-Kit 3

### Diagnosis for the current laboratory values



Lead and copper elevated through wear of non-ferrous components (e.g. brass). The additive elements differ from the fresh oil. Possible reasons could be a different oil type or mixture with another oil type. NZ (acid/neutralization number) higher than expected but not yet critical. Possible reason: oxidation or oil aging. I recommend that you change the oil as soon as possible if you have not already done so.

Dipl.-Ing. Rüdiger Krethe

### Sample Rating



**action**

ANALYSIS RESULTS			Current sample	Previous samples	
LAB NUMBER			1700882	1700883	
SAMPLE RATING					
Date tested			09.06.2023	28.09.2021	
Date of sample taken			14.05.2023	18.09.2021	
Date of last oil change			11.07.2019	11.07.2019	
Top-up since change	l		250	90	
Operating time since change	h		16660	8320	
Total operating time	h		27690	19350	
Oil changed			no	no	
WEAR					
Iron	Fe	mg/kg	4	2	
Chrom	Cr	mg/kg	0	0	
Tin	Sn	mg/kg	0	0	
Aluminum	Al	mg/kg	0	0	
Nickel	Ni	mg/kg	0	0	
Copper	Cu	mg/kg	15	1	
Lead	Pb	mg/kg	19	1	
Molybdenum	Mo	mg/kg	0	0	
PQ index	-		< 25	< 25	
CONTAMINATION					
Silicon	Si	mg/kg	5	3	
Potassium	K	mg/kg	3	0	
Sodium	Na	mg/kg	0	0	
Water K. F.	ppm		549	284	
OIL CONDITION					
Viscosity at 40°C	mm²/s		138.90	140.90	
Viscosity at 100°C	mm²/s		14.87	14.31	
Viscosity index	-		108	99	
Oxidation	A/cm		1	4	
IR index	-		99.12	99.53	
ADDITIVES					
Calcium	Ca	mg/kg	343	55	
Magnesium	Mg	mg/kg	0	0	
Boron	B	mg/kg	15	3	
Zinc	Zn	mg/kg	152	47	
Phosphorus	P	mg/kg	365	208	
Barium	Ba	mg/kg	0	0	
Sulphur	S	% Wt.	1.15	0.88	
ADDITIONAL TESTS					
AN / NN	mgKOH/g		1.79	0.67	

Bottle and cap



Infrared Spectrum

