

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

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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			08.06.2021	26.09.2019	
Date of sample taken			14.05.2021	18.09.2019	
Date of last oil change			11.07.2017	11.07.2017	
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	
Chrome	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

