BLACKSTONE LABORATORIES

OIL REPORT

LAB NUMBER: K87453
REPORT DATE: 1/22/2019
CODE: 1/32

UNIT ID: CELL 8 PRESS HYD
CLIENT ID:
PAYMENT: PO: 42505

UNIT

MAKE/MODEL:
FUEL TYPE:
ADDITIONAL INFO: CTC Plant 1

OIL TYPE & GRADE: AW 68 Hydraulic
OIL USE INTERVAL: Months

CLIENT

COMMENTS

Iron and copper have increased, showing more steel and brass/bronze wear. Note also the sudden increase in silicon -- any work done to this unit recently? If so, then maybe the metals are from wear-in and the silicon is from sealers? Otherwise, maybe the silicon is abrasive. Insolubles read high, showing oxidation of the oil due to heat and use, and that's reason enough to change the oil. Changing it out should help reset metals, so we'll look for improvements next time, hopefully.

ELEMENTS IN PARTS PER MILLION		UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
MI/HR on Oil					6	6		
MI/HR on Unit								
Sample Date	1/20/2019		8/15/2018	4/19/2018	12/7/2017	6/19/2017		
Make Up Oil Added								
ALUMINUM	4	0	0	2	0	0		0
CHROMIUM	1	0	2	0	0	0		0
IRON	**22**	12	12	**13**	0	1		5
COPPER	**92**	25	24	**58**	0	7		9
LEAD	5	2	3	2	0	1		1
TIN	0	1	3	2	0	0		27
MOLYBDENUM	1	0	0	0	1	0		0
NICKEL	1	0	0	1	1	0		0
MANGANESE	1	0	0	0	0	0		0
SILVER	0	0	0	0	0	0		0
TITANIUM	0	0	0	0	0	0		0
POTASSIUM	2	1	0	1	0	1		1
BORON	12	1	1	0	1	0		1
SILICON	**326**	24	9	**16**	0	**47**		5
SODIUM	6	2	3	3	0	1		4
CALCIUM	414	108	87	124	97	77		56
MAGNESIUM	57	30	17	65	3	5		10
PHOSPHORUS	533	418	373	606	368	402		341
ZINC	590	475	431	618	511	478		380
BARIUM	1	2	3	1	0	0		1

PROPERTIES

		Values Should Be*					
SUS Viscosity @ 210°	52.4	51-62	60.1	54.2	52.8	**50.4**	
cSt Viscosity @ 100°C	8.01	7.6-11.1	10.24	8.54	8.12	**7.40**	
Flashpoint in °F	**425**	>430	485	450	470	**430**	
Fuel %	-		-	-	-	-	
Antifreeze %	-		-	-	-	-	
Water %	0.0	0.0	0.0	0.0	0.0	0.0	
Insolubles %	**0.2**	<0.1	**0.1**	**0.2**	0.0	TR	
TBN							
TAN							
ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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