



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:	OIL TYPE & GRADE: AW 68 Hydraulic
	FUEL TYPE:	OIL USE INTERVAL: Months
	ADDITIONAL INFO: CTC Plant 1	

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

Values Should Be*

PROPERTIES	52.4	51-62	60.1	54.2	52.8	50.4
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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