ABC MINE

123 Mine Road

Nome, AL

Phone: 555-555-1211

Email: info@mine.com

Machine ID: 16709

Machine Make: CATERPILLAR

Machine Model: 777D

Machine Year : 2009

Component ID: 56778

Component Year: 2009

Component Type : HYDRAULIC

Component Location: LEFT-REAR

Component Description: REAR HYDRAULIC

Sump Capacity: 5 Quarts

ON-SITEANALYSIS, INC.

7108 Fairway Drive
Palm Beach Gardens, FL 33418
561-775-5756

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
38	1/21/2014	2099	250	SAE 46	EXXON	-	No	1/21/2014	
Comments	HIGH CHROMIUM MAY INDICATE SPOOLS WEAR. MOTOR PISTON WEAR INDICATED. HIGH ALUMINUM POSSIBLY INDICATES CYLINDER GLAND PUMP. CYLINDER BORES AND RODS WEAR INDICATED. PISTON WEAR INDICATED. SAMPLE APPEARS FREE OF EXTERNAL CONTAMINATION. RESAMPLE AT 1/2 NORMAL SERVICE INTERVAL TO MONITOR.								

	Wear Metals(ppm)							*Contaminant Metals (ppm)*			*Multi-Source Metals (ppm)*					*Additives (ppm)*				
Sample ID	Iron	Chromium	Aluminum	Copper	Lead	Tin	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Nickel	Manganese	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
38	3	10	20	5	2	<2	6	<2	5	3	0	12	0	0	1	8	310	0	423	<2

	Contaminants				*Physical Properties*									*Particle Counter(Count Per 100 ml)*			
Sample ID	Fuel	Soot	Water	Glycol	Nitration	TBN	Oxidation	V40C	V100C	VIndex	V40C Limit	V100C Limit	Visc Mode	>4µm	>6µm	>14µm	ISO Code
38	X	X	<0.1	-	<2	X	4.2	46.9	5.1	123	32.9 - 50.9	3.8 - 5.6	C	25114	11014	2581	(4406)15/14/12

ABNORMAL | SEVERE | D = DETECTED | - = NOT DETECTED | X = NOT TESTED / NOT APPLICABLE | NA = NOT AVAILABLE | C = CALCULATED | M = MEASURED

ABC MINING

123 MINE ROAD

NOME, AL

Phone: 555- 555-1212

Email: INFO@MINE.COM

Machine ID: LOW VISC

Machine Make: CATERPILLAR

Machine Model: 777D

Machine Year : 2011

Component Description: FRONT HYDRAULIC

Component ID: HY676

Component Year: 2011

Component Type : HYDRAULIC

Component Location: CENTER

Sump Capacity: 5 Quarts

OSA4 MICRO LAB On-Site Oil Analyzer

ON-SITE ANALYSIS, INC.

7108 Fairway Drive
Palm Beach Gardens, FL 33418
561-775-5756

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
13	1/13/2014	1707	250	AW46	SHELL	TELLUS	No	1/13/2014	
Comments	ANALYSIS INDICATES HYDRAULIC WEAR RATES NORMAL. SAMPLE APPEARS FREE OF EXTERNAL CONTAMINATION. ANALYSIS INDICATES PROPER PERFORMANCE OF THE LUBRICANT AND HYDRAULIC SYSTEM.								

	Wear Metals(ppm)							*Contaminant Metals (ppm)*			*Multi-Source Metals (ppm)*					*Additives (ppm)*				
Sample ID	Iron	Chromium	Aluminum	Copper	Lead	Tin	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Nickel	Manganese	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
13	3	<2	<2	3	<2	<2	<2	5	3	<2	<2	<2	<2	3	7	11	389	<2	532	487

	Contaminants				*Physical Properties*									*Particle Counts*	*ISO Code 4406:1999*		
Sample ID	Fuel	Soot	Water	Glycol	Nitration	TBN	Oxidation	V40C	V100C	VIndex	V40C Limit	V100C Limit	Visc Mode	ISO Range# >4µm	ISO Range# >6µm	ISO Range# >14µm	Moisture
13	X	X	<0.1	-	<2	X	3.1	46	6.9	105	41.4 - 50.6	6.3 - 7.6	M	17	16	13	30.0

ABNORMAL | SEVERE | D = DETECTED | - = NOT DETECTED | X = NOT TESTED / NOT APPLICABLE | NA = NOT AVAILABLE | C = CALCULATED | M = MEASURED