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REPORT DATE 10/15/0Z
 MACHINE ID NO. CENT
 DESCRIPTION CENTRAL SYSTEM
 TYPE _____
 APPLICATION GRINDING
 OIL BENZ GRIND HP 32

SAMPLE INFORMATION					WEAR METAL & CONTAMINANT ELEMENTS, PPM										PHYSICAL TESTS					
LAB. NO.	DATE REC'D	MILES-HRS ON OIL	MILES-HRS ON UNIT	DATE TAKEN	COPPER	ALUM.	IRON	SI (DIRT)	CHROM.	LEAD	SILVER	NICKEL	TIN	SODIUM	VIS. cSt 40° C	VIS. cSt 100° C	FUEL DIL.	ANTI-FREEZE	% WATER	% TOTAL SOLIDS
18331	10/12/0Z			10/11	4	0	20	4	1	2	0	6	1	12	30				.05	NEG
09329	5/29/0Z			5/24	0	0	12	0	1	0	0	1	0	6	30				.05	NEG
06093	4/06/0Z			4/04	3	0	27	5	1	11	0	4	3	10	28				.05	TRC
19264	10/10/0Y			10/05	1	0	36	7	2	9	0	5	0	2	28				.05	TRC
13086	7/10/0Y			7/07	6	0	41	5	1	14	0	5	0	4	28				.05	TRC
06359	3/31/0Y			3/29	14	5	27	8	1	4	0	4	0	5	29				.05	NEG
00437	1/07/0Y			1/04	6	0	33	3	1	4	0	7	0	2	29				.05	NEG
18176	9/28/0X			9/27	5	1	50	3	1	13	0	8	0	0	29				.05	NEG

LAB. NO.	ADDITIVE ELEMENTS, PPM					ADDITIONAL TESTS																
	ZINC	PHOS	CALCIUM	MAG	BARIUM	FAT																
18331	27	676	21	0	0	1.9																
09329	32	597	20	0	0	2.0																
06093	28	631	36	4	0	1.9																
19264	24	671	12	0	0	1.9																
13086	25	716	21	3	0	2.0																
06359	16	678	11	0	0	2.0																
00437	19	717	28	5	0	1.9																
18176	25	713	25	0	0	1.9																

COMMENTS & RECOMMENDATIONS:

BASED UPON THE SAMPLE AND INFORMATION PROVIDED THIS LUBRICANT IS IN GOOD CONDITION AND SUITABLE FOR FURTHER USE.

ASTM D-2 Interlaboratory Crosscheck Program

The ASTM D-2 Interlaboratory Crosscheck program provides a method for petroleum laboratories to validate their analytical procedures. Three times per year identical oil samples are sent to more than 200 laboratories. Each lab evaluates these samples using standard ASTM procedures and sends their results to the ASTM. ASTM performs a statistical analysis of the data and confidentially reports their findings to each laboratory. This enables companies like Benz Oil to verify the validity of their testing protocols.

Some of the tests including in the Interlaboratory Crosscheck Program:

- Viscosity, ASTM D445
- Water Content, ASTM D1744
- Flash Point, ASTM D92
- Phosphorus, ASTM D4951
- Zinc, ASTM D4951
- Calcium, ASTM D4951
- Density, ASTM D1298
- Total Acid Number, ASTM D664
- Total Base Number, ASTM D2896

Participating Laboratories

Alabama Power	Dixie Services	Kenton Lube Plant	Pinnacle Oil
Al Hamrani-Fuchs	DNV Petroleum	Lot Polish Airlines	Polaris Labs
Alcoa	Duke Energy	Lotos Labs	Raloy Lubricantes SA
Alimco	Entergy Nuclear	Lubrinsa	Repsol Lubricantes
Ais Technichem	Esso (6)	Lubricating Specialties	Rocky Research
Amalie Oil	Ethyl	Lubrication Engineers	Rohmax
Analysts Inc (5)	Expertises Tech.	Lubriport Labs	Rom Madeni
Anametrics	ExxonMobil (28)	Lubrizol	Sacramento Pet. Lab
Apollo America	FI Viscosity Oil	Luval S A	Safety Kleen
Benz Oil	Ford	Maxxam Analytics	Saudi Arabian Lubes
BHP Steel	Fortum Oil	Metric Ltd.	Savant
Bowser-Morner	General Motors	Mexicana Lubes	SCE&G Co.
Caltex	General Petroleum	Middle East Lubes	Shell (4)
Cannon Instruments	Gold Eagle	Mobil Oil (9)	South Coast Terminals
Castrol (5)	Gordon Terminals	Mol-Lub Ltd.	Southwest Research
Cemex	Haifa Basic Oils	Motiva Enterprises	STP Products
Cenex	Hanval	Motor Oil Corinth Ref	Sunoco
Chevron (11)	Herguth Labs	Newalta	Taiwan Power
Chinese Petroleum	Hicks Oil	Northland	Texas Oiltech
Citgo (3)	ISP Gmbh	Oiltest Inc.	Tonengeneral
City Lubricants	Icolub	Olympic Oil	US Army ATC
Conoco (5)	Imperial Oil	Panair Laboratory	UEC Fuels and Lubes
Copec	Indian Additives	Pdvsa - Intervep	Universal Lubricants
CTC Analytical (8)	Infineum	Perkin-Elmer	Valvoline (6)
DAPSA	Intertek Testing	PetroCan (2)	WE Energies
Delta Petroleum	Italsing Petroleum	Petroleo Brasileiro	Wearcheck
Dexsil	Jet-Care International	Petronas	Ypf SA