

NEW ORLEANS PUBLIC

BELT RAILROAD

LOCO 3ØØ3

ENGINE

LUBRIPORT LABORATORIES INC. 1650 AIRLINE DRIVE KENNER, LA 70062 (504) 464-1734		JOSH/BANJO ENGINE		CP #Ø58		
		THIS SEPTEMBER SAMPLE EXHIBITS SLIGHTLY HIGHER THAN NORMAL WEAR AND CONTAMINATION LEVELS. CALCIUM AND BASE NUMBER INCREASED.	SLIGHTLY LESS WEAR AND CONTAMINATION FOUND ON MORE RECENT DECEMBER SAMPLE. NO IMMEDIATE ACTION REQUIRED.	INSOLUBLES REMAIN HIGHER ON THIS EN- GINE. LITTLE CHANGE IN WEAR METALS FOUND. NO CORREC- TIVE ACTION RE- QUIRED.	OIL SUITABLE FOR CONTINUED USE. WEAR AND CONTAMINATION LEVELS ARE NORMAL.	INSOLUBLES, VISCO- SITY, WEAR METALS AND WATER CONTENT ALL INCREASED. FEBRUARY RESAMPLE SUGGESTED.
INVOICE	E NO.	LL-63933	LL-63933	LL-64328	LL-65374	LL-65932
REPORT DATE:		JANUARY 7, 2019	JANUARY 7, 2019	MARCH 20, 2019	OCTOBER 21, 2019	FEBRUARY 24, 2020
DATE SAMPLE REC'D:		DECEMBER 17, 2018	DECEMBER 17, 2018	MARCH 11, 2019	OCTOBER 1, 2019	FEBRUARY 10, 2020
PRODUCT		LUBE OIL	LUBE OIL	LUBE OIL	LUBE OIL	LUBE OIL
LAB NUMBER		12-478	12-479	3-210	10-3	2-258
DATE SAMPLED		9/5/18	12/4/18	3/11/19	9/6/19	12/11/19
VISC. SUS @ 210 F		76.3 SECS.	76.3 SECS.	79.3 SECS.	76.8 SECS.	79.7 SECS.
VISC. KIN @ 210 F		14.57 CST.	14.57 CST.	15.33 CST.	14.72 CST.	15.44 CST.
TBN (D2896)		8.3	8.2	8.1	8.2	8.1
PENTANE INSOLUBLES		Ø.6%	Ø.5%	Ø.5%	Ø.3%	Ø.4%
WATER BY DIST.		Ø.15%	Ø.1%	Ø.15%	Ø.1%	Ø.15%
SAE WEIGHT		40 WT.	40 WT.	40 WT.	40 WT.	40 WT.
DILUTION		TRACE	TRACE	NIL	TRACE	NIL
METALS	IRON	34	29	3Ø	2Ø	3Ø
IN	SILVER	Ø.1	Ø.1	Ø.1	Ø.2	0.0
PPM	ALUMINUM	3.1	2.9	3.0	4.5	4.1
	CHROMIUM	8.7	6.8	7.3	8.1	9.1
	COPPER	5Ø	42	39	4Ø	. 52
	MAGNESIUM	11.7	10.3	11.6	13.7	15.2
	SODIUM	42	33	36	42	42
	NICKEL	1.0	Ø.5	1.2	Ø.7	Ø.5
	LEAD	8.0	4.0	5.3	2.2	3.2
	SILICON	8.8	6.9	6.9	6.1	8.3
	TIN	Ø.Ø	ø.ø	Ø.Ø	Ø.Ø	0.0
	TITANIUM	Ø.4	Ø.1	Ø.Ø	Ø.1	Ø.3
	BORON	Ø.8	Ø.9	Ø.1	ø.ø	1.9
	BARIUM	1.0	Ø.5	1.1	0.4	0.1
	MOLYBDENUM	18.9	14.0	7.3	5.6	4.0
	VANADIUM	Ø.2	Ø.1	Ø.Ø	Ø.Ø	Ø.Ø
	ZINC	9.6	10.5	12.3	10.2	9.2
	MANGANESE	Ø.2	ø.ø	Ø.Ø	Ø.Ø	Ø.6
	CALCIUM	3472	3259	2982	2942	2929
	PHOSPHORUS	2Ø	2Ø	21	2Ø	12.4