

LUBRIPORT LABORATORIES INC.

1650 AIRLINE DRIVE KENNER, LA 70062

(504) 464-1734

NEW ORLEANS PUBLIC BELT RAILROAD JOSH/BANJO LOCO 4ØØ1 ENGINE

NO CORRECTIVE ACTION NECESSARY. WEAR AND CONTAMINATION LEVELS ARE RELATIVELY STA-BLE. RESAMPLE AT NORMAL TIME. NO EXCESSIVE WEAR OR CONTAMINATION FOUND.

HIGHER INSOLUBLES, BUT RELATIVELY STABLE WEAR LEVELS PRESENT. SERIOUS PROBLEM UNLIKELY.

CP #Ø72

VISCOSITY AND IN-SOLUBLES HAVE IN-CREASED. RISE IN MOST WEAR METALS ALSO DETECTED. NO IMMEDIATE ACTION REQUIRED. OIL SUITABLE FOR CONTINUED USE. NORMAL WEAR AND CONTAMINATION FOUND.

	INVOICE NO.	LL-63297	LL-63933	LL-64599	LL-65216	LL-65374
	REPORT DATE:	SEPTEMBER 5, 2018	JANUARY 7, 2019	MAY 21, 2019	SEPTEMBER 18, 2019	OCTOBER 21, 2019
5	DATE SAMPLE REC'D:	AUGUST 7, 2018	DECEMBER 17, 2018	MAY 7, 2019	AUGUST 29, 2019	OCTOBER 1, 2019
	PRODUCT	LUBE OIL	LUBE OIL	LUBE OIL	LUBE OIL	LUBE OIL
7)1	LAB NUMBER	8-288	12-482	5-264	8-967	1Ø-5
	DATE SAMPLED	6/19/18	12/12/18	3/13/19	6/10/19	9/11/19
	VISC. SUS @ 21Ø F	77.6 SECS.	77.1 SECS.	73.4 SECS.	78.2 SECS.	8Ø.1 SECS.
	VISC. KIN @ 21Ø F	14.92 CST.	14.8Ø CST.	13.83 CST.	15.05 CST.	15.56 CST.
	T.B.N. (D2896)	8.7	9.0	8.3	8.3	8.4
	WATER BY DISTILLATIO	A CONTRACTOR OF THE PROPERTY O	Ø.2%	Ø.3%	Ø.5%	Ø.3%
	SAE WEIGHT	Ø.1%	Ø.1%	Ø.1%	Ø.1%	Ø.1%
	DILUTION	Ø.5%	TRACE	1%	NIL	NIL

	METALS IRON	6.3	8.9	6.7	9.9	11.5
	IN SILVER	Ø.Ø	Ø.Ø	Ø.Ø	Ø.2	Ø.1
	PPM ALUMINUM	1.8	1.4	1.7	2.1	2.6
	CHROMIUM	Ø.6	Ø.4	1.8	2.5	1.7
	COPPER	2.8	3.2	3.Ø	4.6	5.9
	MAGNESIUM	13.9	11.2	12.5	14.8	14.2
	SODIUM	49	15.1	18.8	12.8	12.0
	NICKEL	Ø.8	Ø.2	1.1	1.1	Ø.8
	LEAD	1.5	1.0	4.7	3.1	2.0
	SILICON	2.9	6.0	3.2	5.4	5.8
	TIN	Ø.Ø	Ø.Ø	Ø.Ø	Ø.Ø	0.0
	TITANIUM	Ø.Ø	Ø.Ø	Ø.Ø	Ø.1	Ø.1 2.0
	BORON	Ø.9	Ø.5	Ø.Ø	Ø.6	Ø.7
	BARIUM	1.1	Ø.8	1.4	1.2	Ø.9
	MOLYBDENUM	5Ø	37	15.9	16.0	12.4
	VANADIUM	Ø.Ø	Ø.Ø	Ø.2	Ø.3	Ø.2
	ZINC	1.8	5.3	5.5	6.1	6.8
	MANGANESE	Ø.Ø	Ø.Ø	Ø.Ø	Ø.Ø	Ø.Ø
	CALCIUM	296Ø	3283	2819	2696	2823
	PHOSPHORUS	37	35	8.4	10.2	12.5