



**LUBRIPORT  
LABORATORIES  
INC.**

1650 AIRLINE DRIVE  
KENNER, LA 70062

(504) 464-1734

NEW ORLEANS PUBLIC  
BELT RAILROAD  
JOSH/BANJO

LOCO 1502  
ENGINE

CP #055

SODIUM AGAIN ELE-  
VATED. SILICON  
REDUCED TO MORE  
TYPICAL VALUE. NO  
CORRECTIVE ACTION  
NECESSARY.

SLIGHTLY HIGHER  
INSOLUBLES DETECT-  
ED, BUT WEAR METALS  
NEARLY UNCHANGED.

WATER AND SODIUM  
INCREASED. MINOR  
COOLANT ENTRY POS-  
SIBLE.

SODIUM AND WATER  
CONTENT ARE RE-  
DUCED. LITTLE  
CHANGE IN WEAR  
METALS FOUND. RE-  
SAMPLE AT NORMAL  
TIME.

OIL APPARENTLY  
CHANGED. WEAR MET-  
ALS, INSOLUBLES AND  
FUEL DILTUION ARE  
ALL REDUCED.

INVOICE NO.	LL-62163	LL-63025	LL-63933	LL-64328	LL-65932
REPORT DATE:	JANUARY 2, 2018	JULY 9, 2018	JANUARY 7, 2019	MARCH 20, 2019	FEBRUARY 21, 2020
DATE SAMPLE REC'D:	DECEMBER 15, 2017	JUNE 15, 2018	DECEMBER 17, 2018	MARCH 11, 2019	FEBRUARY 10, 2020
PRODUCT	LUBE OIL	LUBE OIL	LUBE OIL	LUBE OIL	LUBE OIL
LAB NUMBER	12-525	6-559	12-468	3-204	2-250
DATE SAMPLED	12/6/17	6/6/18	8/29/18	2/26/19	11/25/19
VISC. SUS @ 210 F	76.9 SECS.	75.7 SECS.	75.2 SECS.	75.6 SECS.	78.5 SECS.
TBN (D2896)	6.9	7.1	7.0	6.9	7.0
PENTANE INSOLUBLES	0.2%	0.3%	0.3%	0.3%	0.25%
WATER	0.1%	0.1%	0.2%	0.1%	0.1%
SAE WEIGHT	40 WT.	40 WT.	40 WT.	40 WT.	40 WT.
DILUTION	TRACE	TRACE	TRACE	TRACE	NIL
METALS					
IRON	17.6	17.4	24	23	16.5
SILVER	0.0	0.0	0.1	0.1	0.0
ALUMINUM	2.2	1.5	2.3	2.4	2.1
CHROMIUM	1.2	0.9	2.3	2.5	0.9
COPPER	16.3	15.9	20	21	18.2
MAGNESIUM	11.1	9.2	12.3	14.9	22
SODIUM	70	88	112	39	17.4
NICKEL	1.0	0.9	1.0	2.6	0.0
LEAD	5.5	3.4	3.8	4.1	1.1
SILICON	7.6	7.4	6.1	5.2	3.8
TIN	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.6	0.9	0.0	0.0	0.0
BORON	0.7	0.4	0.4	0.1	0.3
BARIUM	1.0	0.2	0.2	1.2	0.1
MOLYBDENUM	4.3	3.4	7.4	3.9	0.3
VANADIUM	0.1	0.0	0.0	0.1	0.1
ZINC	5.9	4.3	6.8	12.3	3.6
MANGANESE	0.0	0.0	0.1	0.2	0.0
CALCIUM	3058	2917	2871	2725	2814
PHOSPHORUS	10.1	6.5	11.2	19.0	2.7

*Josh Fairbank*