

CUSTOMER:	MING CHUANG
PLANT:	CANTON
MACHINE NAME:	ROY 19 / PURPLE 5W30
LOCATION:	
MACHINE TYPE:	REFERENCE LUBRICANT
LUBE TYPE:	ROY PURPLE 5W30
MACH MFGR:	N/A
MACH MOD:	NOT APPLICABLE (N/A)
RECEIVED:	26-JUL-17
CONTACT 1:	MING CHUANG
REPORT:	31-JUL-17 17:00:43
SAMPLE NO:	3195-1-1-1
PO NUMBER:	FREE

REFERENCE LUBRICANT.

SAMPLING HISTORY					
LabNo	SAMPLE DATE MM-DD-YYYY	TIME ON OIL / TSN	TIME SINCE OVER- HAUL / TSO	OIL CHANGED (Y/N)	PREVIOUS CONDI- TION MACH/OIL
2297570	07-18-2017	0	0	N	(n/a)

(SP) SPECTROSCOPIC ANALYSIS [ASTM D5185] (elements seen in ppm)									
TESTED ELEMENTS ARE:Fe, Cu, Pb, Sn, Cr, Al, Ni, Ti, Ag, V, Mg, Si, B, Na, Ba, Ca, P, Mn, Zn, Mo, Cd, K.									
Date(MM/DD/YY)	07-18-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	-
Labno	2297570								
Fe-IRON	1.0								-
Mo-MOLYBDENUM	1.0								-
Si-SILICON	3.0								-
Mg-MAGNESIUM	10								-
B-BORON	1.0								-
Na-SODIUM	422								-
Ca-CALCIUM	1944								-
P-PHOSPHORUS	689								-
Zn-ZINC	809								-

(FTIR) FOURIER TRANSFORM INFRARED ANALYSIS (Absorbance)									
Date(MM/DD/YY)	07-18-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	-
Labno	2297570								
SOOT	4								-
OXIDATION	9								-
SULFATE	15								-
NITRATION	4								-

SOOT (%)									
Date(MM/DD/YY)	07-18-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	-
Labno	2297570								
SOOT (%)	0.13								-

VISCOSITY/40 [ASTM D445]

Date(MM/DD/YY)	07-18-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)
Labno	2297570								
in cSt 40°C	60.23								

VISCOSITY/100 [ASTM D445]

Date(MM/DD/YY)	07-18-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)
Labno	2297570								
in cSt 100°C	10.03								

TBN [ASTM D4739] (mg KOH/g)

Date(MM/DD/YY)	07-18-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)
Labno	2297570								
TOTAL BASE NO	6.74								

TAN [ASTM D974 OR D664] (mg KOH/g)

Date(MM/DD/YY)	07-18-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)
Labno	2297570								
TOTAL ACID NO	1.06								

VISCOSITY INDEX [ASTM D2270]

Date(MM/DD/YY)	07-18-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)
Labno	2297570								
VISCOSITY INDEX	153.00								

WATER (%)

Date(MM/DD/YY)	07-18-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)
Labno	2297570								
WATER (%)	0.195								

FUEL(%)

Date(MM/DD/YY)	07-18-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)
Labno	2297570								
FUEL	1.06								

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