

CUSTOMER:	MING CHUANG	Machine Condition
PLANT:	CANTON	
MACHINE NAME:	LEXUS RCF	NORMAL
LOCATION:		
MACHINE TYPE:	DIESEL ENGINE	
LUBE TYPE:	ROY PURPLE 5W30	
MACH MFGR:	Missing information	
MACH MOD:		Lubricant Condition
RECEIVED:	26-JUL-17	
CONTACT 1:	MING CHUANG	
REPORT:	31-JUL-17 17:00:54	
SAMPLE NO:	3195-1-2-1	
TICKET NO:	7,AET7	NORMAL

RECOMMENDATIONS

- Continue normal operation and regular sampling.

MISCELLANEOUS

- Lubricant refers to oil, fuel, biofuel, grease, coolant or varnish.
- The lube or machine time was not indicated. We are using an arbitrary starting point for unknown time. Please advise correct time estimates if possible.
- We do not know who is the manufacturer of this equipment. Kindly provide this information as it would allow comparison with data from similar units.
- Trend analysis could not be performed. (Min. 4 tests required)
- Our database indicates no site contaminant for this unit. Please advise laboratory if this is not the case.

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
2297571	07-18-2017	999	999	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)	REF
Labno	2297571								2297570
Fe-IRON	7.0								1.0
Cu-COPPER	3.0								-
Pb-LEAD	2.0								-
Sn-TIN	1.0								-
Al-ALUMINUM	3.0								-
Mo-MOLYBDENUM	35								1.0
Si-SILICON	6.0								3.0
Mg-MAGNESIUM	32								10
B-BORON	15								1.0
Na-SODIUM	337								422
Ca-CALCIUM	2007								1944
P-PHOSPHORUS	700								689
Mn-MANGANESE	23								-
Zn-ZINC	849								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)	REF
Labno	2297571								2297570
SOOT	2								4
AW/EP	15								15
OXIDATION	10								9
SULFATE	17								15
NITRATION	7								4
GLYCOL	0								0
FUEL/DILUTION	215								205
WATER	18								17

SOOT (%)

Date(MM/DD/YY)	07-18-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	2297571								2297570
SOOT (%)	0.11								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)	REF
Labno	2297571								2297570
in cSt 40°C	53.60								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)	REF
Labno	2297571								2297570
in cSt 100°C	9.20								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)	REF
Labno	2297571								2297570
TOTAL BASE NO	6.28								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)	REF
Labno	2297571								2297570
TOTAL ACID NO	1.26								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)	REF
Labno	2297571								2297570
VISCOSITY INDEX	154.00								153.00

WATER (%)									
Date(MM/DD/YY)	07-18-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	2297571								2297570
WATER (%)	0.167								0.195

FUEL(%)									
Date(MM/DD/YY)	07-18-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	2297571								2297570
FUEL	2.22								1.06

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