

CUSTOMER:	DANIEL MACKEY
PLANT:	DANIEL TEST
MACHINE NAME:	MOBIL 1 EP 5W20
LOCATION	FEB 2017
MACHINE TYPE:	NEW OIL
LUBE TYPE:	UNK UNKNOWN OIL
MACH MFGR:	Missing information
MACH MOD:	
RECEIVED:	08-JUN-17
CONTACT 1:	DANIEL
REPORT:	13-JUN-17 17:31:16
SAMPLE NO:	5-175-19-1
PO NUMBER:	FREE

Lubricant Condition
MARGINAL
RECOMMENDATIONS

- Locate and eliminate the source of water entry and resample.
- The type of lubricant (brand and manufacturer) was not specified on the sample bottle label. Kindly supply this information as it can **DRAMATICALLY** alter the diagnostic which takes into consideration comparison results with your unused lube specs.

LOGIC

- The results below is based on the assumption that the lubricant submitted is new oil.
- Viscosity level determined cannot be compared to the unused lubricant value as the specs of lube in service are not known.

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
2282316	06-08-2017	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)	06-08-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	2282316								
Sn-TIN	1.0								-
Mo-MOLYBDENUM	67								-
Si-SILICON	3.0								-
Mg-MAGNESIUM	702								-
B-BORON	81								-
Ca-CALCIUM	985								-
P-PHOSPHORUS	686								-
Zn-ZINC	797								-

(FTIR) FOURIER TRANSFORM INFRARED ANALYSIS (Absorbance)

Date(MM/DD/YY)	06-08-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	2282316								
AW/EP	16								-
OXIDATION	10								-
SULFATE	16								-
NITRATION	6								-
GLYCOL	0								-
WATER	17								-

VISCOSITY/40 [ASTM D445]

Date(MM/DD/YY)	06-08-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	2282316								
in cSt 40°C	49.48								-

VISCOSITY/100 [ASTM D445]

Date(MM/DD/YY)	06-08-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	2282316								
in cSt 100°C	8.74								-

TBN [ASTM D4739] (mg KOH/g)

Date(MM/DD/YY)	06-08-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	2282316								
TOTAL BASE NO	7.80								-

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

Date(MM/DD/YY)	06-08-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	2282316								
TOTAL ACID NO	0.60								-

KARL FISHER (%)

Date(MM/DD/YY)	06-08-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	2282316								
WATER KF	0.061								-

VISCOSITY INDEX [ASTM D2270]

Date(MM/DD/YY)	06-08-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	2282316								
VISCOSITY INDEX	156.00								-

FUEL(%)

Date(MM/DD/YY)	06-08-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	2282316								
FUEL	0.19								-

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