

CUSTOMER:	Daniel	
PLANT:	Daniel's Test Plant	
MACHINE NAME:	2017 F-550	Machine Condition NORMAL
LOCATION:		
MACHINE TYPE:	DIESEL ENGINE	
LUBE TYPE:	SHE ROTELLA T6 5W40	
MACH MFGR:	FORD	
MACH MOD:	1FT8W3BT*****	Lubricant Condition NORMAL
RECEIVED:	06-JUN-17	
CONTACT 1:	Daniel	
REPORT:	06-JUN-17 17:05:37	
SAMPLE NO:	5-175-1-1	
PO NUMBER:	FREE	

RECOMMENDATIONS

- Continue normal operation and regular sampling.

LOGIC

- Viscosity level determined at 40 degrees C for this grade of oil is normal.

MISCELLANEOUS

- Lubricant refers to oil, fuel, biofuel, grease, coolant or varnish.
- FOR GREATER DIAGNOSTIC, PLEASE SUPPLY A CURRENT REFERENCE LUBRICANT TO COMPARE WITH SAMPLE.
- 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.
- 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
228076	06-05-2017	9500	25000	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)	06-05-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	228076								
Fe-IRON	24								-
Cu-COPPER	3.0								-
Al-ALUMINUM	4.0								-
Cr-CHROMIUM	1.0								-
Mo-MOLYBDENUM	7.0								-
Ti-TITANIUM	1.0								-
Ag-SILVER	1.0								-
Si-SILICON	7.0								-
Mg-MAGNESIUM	174								-
B-BORON	90								-
Na-SODIUM	5.0								-
Ca-CALCIUM	1799								-
P-PHOSPHORUS	932								-
Mn-MANGANESE	1.0								-
Zn-ZINC	1109								-

(FTIR) FOURIER TRANSFORM INFRARED ANALYSIS (Absorbance)

Date(MM/DD/YY)	06-05-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	228076								
SOOT	26								-
AW/EP	18								-
WATER-EP	6								-
DEGRADATION I	0								-
DEGRADATION II	89								-

SOOT (%)

Date(MM/DD/YY)	06-05-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	228076								
SOOT (%)	0.44								-

VISCOSITY/40 [ASTM D445]

Date(MM/DD/YY)	06-05-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	228076								
in cSt 40°C	88.84								87.00

VISCOSITY/100 [ASTM D445]

Date(MM/DD/YY)	06-05-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	228076								
in cSt 100°C	14.81								14.20

TBN [ASTM D4739] (mg KOH/g)

Date(MM/DD/YY)	06-05-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	228076								
TOTAL BASE NO	6.27								10.60

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

Date(MM/DD/YY)	06-05-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	228076								
TOTAL ACID NO	2.71								-

KARL FISHER (%)

Date(MM/DD/YY)	06-05-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	228076								
WATER KF	0.071								-

VISCOSITY INDEX [ASTM D2270]

Date(MM/DD/YY)	06-05-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	228076								
VISCOSITY INDEX	175.00								-

FUEL(%)

Date(MM/DD/YY)	06-05-17	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	REF
Labno	228076								
FUEL	2.131								-

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