

TRIP REPORT: 69/4

DATE OF CALL: September 10, 1969

COMPANY: Great Lakes Steel
Detroit, Michigan

CONTACT: Harold Straightwell - Lube Engineer

MONSANTO: G. Fague
D. Hall

Customer
cc: P. Benignus
J. Fallon
N. Johnson
D. Olson
W. R. Richard - WRICH
E. Wheeler - EWHEE
G. Fague - Detroit
R. Garcia - Akron

RESULTS:

Saw a report from E. F. Houghton on fish kill studies with Houghtosafe 1120, 520, 520, Pydraul 312 and Aroclor 1248. Test was run by Microbiological Laboratories for E. F. Houghton. Pydraul looked very bad.

DETAILS:

Report #598031B from above lab dated 4/69 shows Pydraul 312 having 100% kill on blue gills after four days at a level of 0.67 ppm. Aroclor 1248 also a 100% kill after four days at slightly higher limits, but lower kill after only two days. Houghtosafe 1120 had no kill up to 1000 ppm or 1%. Houghtosafe 520 and 520 showed slight toxicity at very high concentrations, but no where near Pydraul or Aroclor.

Tests were run in several different ways - addition, stirring, shaking, agitation with blender, etc. Houghton's cover letter with the report called our product toxic on basis of test and said Pydraul 312 was more toxic than Aroclor 1248 and therefore another component of Pydraul 312 must be the cause since Pydraul 312 contained 1248. This is of course wrong. Pydraul 312 has Aroclor 1242.

This must be the same report Ford saw previously. Straightwell didn't understand the data but was concerned. He is thus turning it over to their pollution people. This could be the end of our efforts unless we can counteract the report. Rapport isn't good enough here to obtain the report.

Houghtosafe 1120 is used in Cats and RD-13 & 21's and also in Askania unit. About 3M gallons a month is used. Water/glycol is used in other equipment (2 M gallon/month). ConCast unit

is reported to have Pyrogard-D in it.. 80" hot strip should be using FR fluids in the loopers, roll balance and coiler, but it isn't confirmed. BOF scrap charger from Pecor is specified on Houghtosa's 1120 by Great Lakes against Pydraul 312 spec of Pecor.

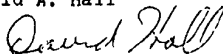
Straightwell has been ordered to cut cost on mobile equipment by Plant Manager. Units are in open hearth area and if operators use Air Parks as indicated by Straightwell, Pydraul will operate successfully. Reclamation could also cut costs since they are periodically dumping charge on each machine due to contamination.

Following actions are needed at Great Lakes to obtain business:

1. Fague send proposal to Straightwell on use of Pydraul 312 in both Askania and mobile equipment. Push for definite trial in Askania. Confirm use of air-packs by operators of mobile equipment. If not used, odor will prevent Pydraul use. Reclamation should be stressed also.
2. Additional contacts are necessary to get in here. Straightwell stated he isn't interested in helping us on the scrap charger so we must get back to the project engineers, Potryk and Sebastian. The ConCast unit should be rechecked for fluid need through M. Jones, Chief Engineer, and by Randy Graham at ConCast. Contact with Straightwell's boss, Maintenance Superintendent, should be made to get in with a more reliable decision maker. Contact with the Supt. Combustion and Supt. Melt Shop or BOF will be needed to get in Askanias and BOF scrap charger since they are directly cost responsible. Contact with Supt. Power Plant may lead to Pydraul AC business. Since plant manager is ordering cost reduction - contact may be acceptable there.

/pke

David A. Hall



Elmer Wheeler
LWHEE