

Bulletin 005/2013

Subject: Incorrectly Manufactured Hydraulic Hoses (80bar)
Affected Product: Cat6060/6060FS (RH340, RH340B)
Serial numbers: 340094 to 340125
Risks Identified: Defective hoses may result in serious injury or death.

Problem Overview:

Due to manufacturing defects, hydraulic hoses, size DN50 (size 32) produced between October 1 2010 and October 31 2011 could fail. Hoses can separate from the fitting because of improper crimping. Affected hoses are used in the hydraulic oil cooling circuit, pump transmission cooling circuit, and fuel system. The defective hoses may contain fittings from two suppliers. This bulletin will use the terms 'supplier 1' and 'supplier 2' to identify the source of the fittings.

Affected hose part numbers are shown in table 1 of this bulletin and can be identified by:

1. The part number and manufacturing date of the hose are stamped on the crimped sleeve - refer illustrations 1 & 2. The date stamped on the sleeve must fall in the range October 1 2010 to October 31 2011.
2. Affected hoses contain either a sleeve or nipple from supplier 2. Supplier 2 fittings can be identified by two rings on the sleeve circumference, as shown in illustrations 4 and 7 of this bulletin.

Defective hoses meet **all** of the above criteria.

Following combinations are possible and indicate an incorrect crimping connection:

Possible Combinations of nipples and sleeves		
	sleeve supplier 1	sleeve supplier 2
nipple supplier 1	good crimping	bad crimping
nipple supplier 2	bad crimping	bad crimping

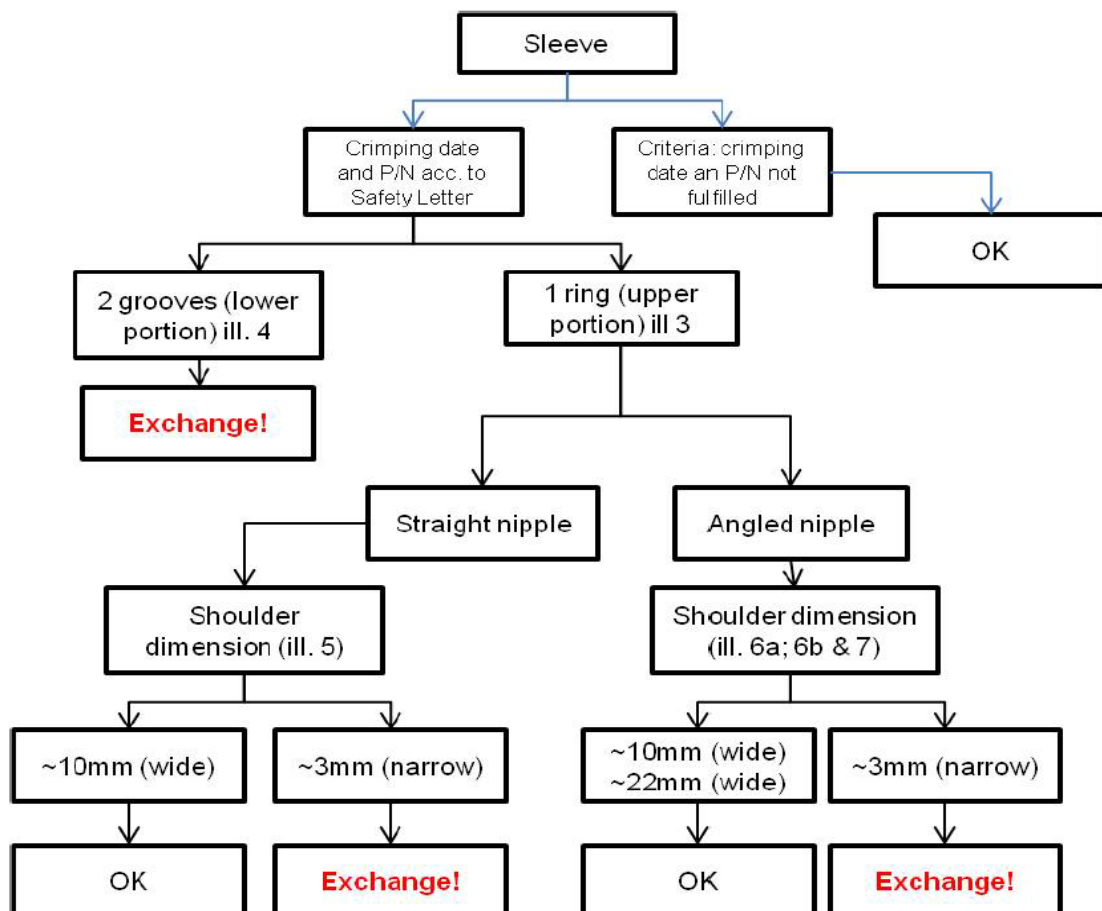
Corrective Actions Required

All machine serial numbers listed may be fitted with affected hoses, and must be inspected (refer table 1). Hoses held as spare parts must also be inspected.

What to Do:

1. Inspect machines in the affected serial number range. If the inspection shows defective hoses are fitted, replacement hoses must be ordered and fitted immediately.
2. Inspect parts stock holdings of affected part numbers shown in this bulletin. Defective hoses identified in this inspection must be replaced.
3. Destroy defective hoses by cutting the hose at the crimped fittings at each end to render the hose unusable and attach a picture of destroyed hose to the warranty claim.

Flow Chart to identify good and bad crimping



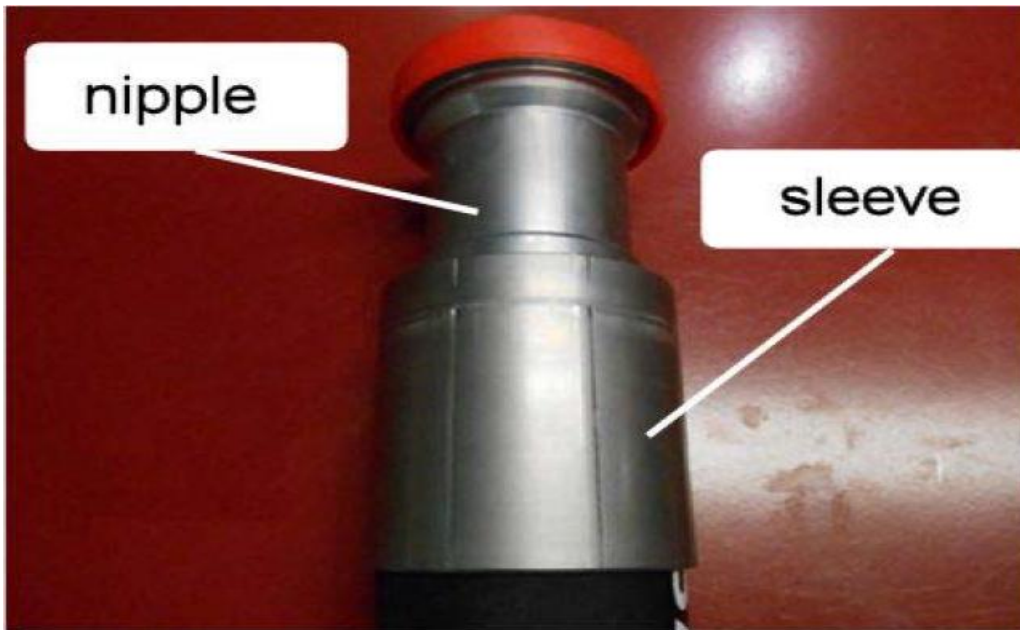


Illustration 1: layout of components
NB. Example shown is straight nipple; 45° and 90° nipples are similar construction

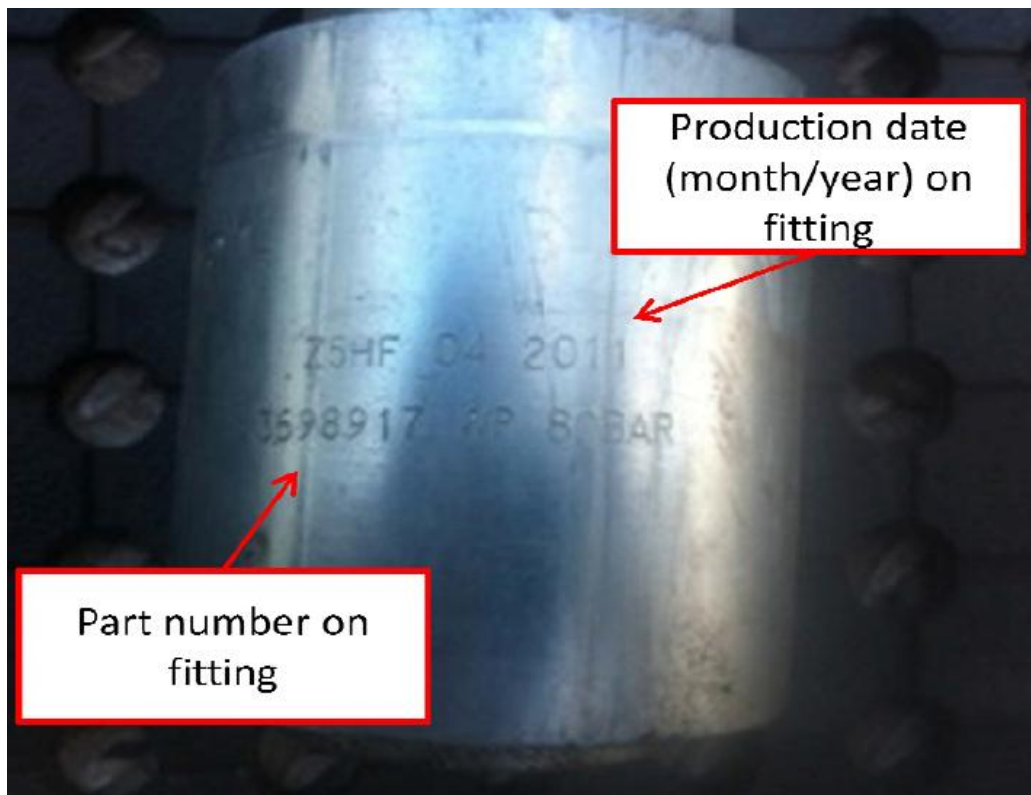


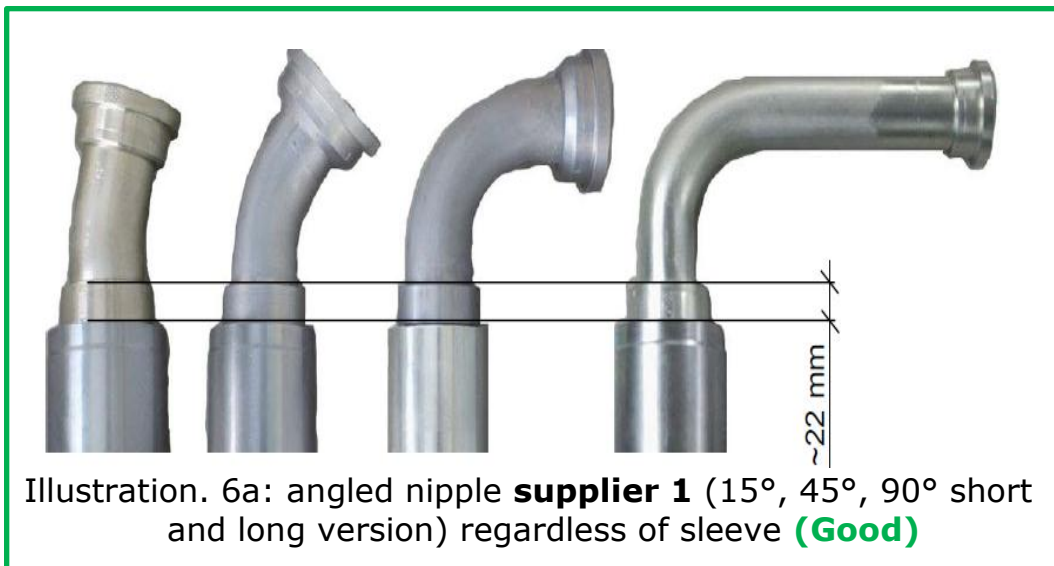
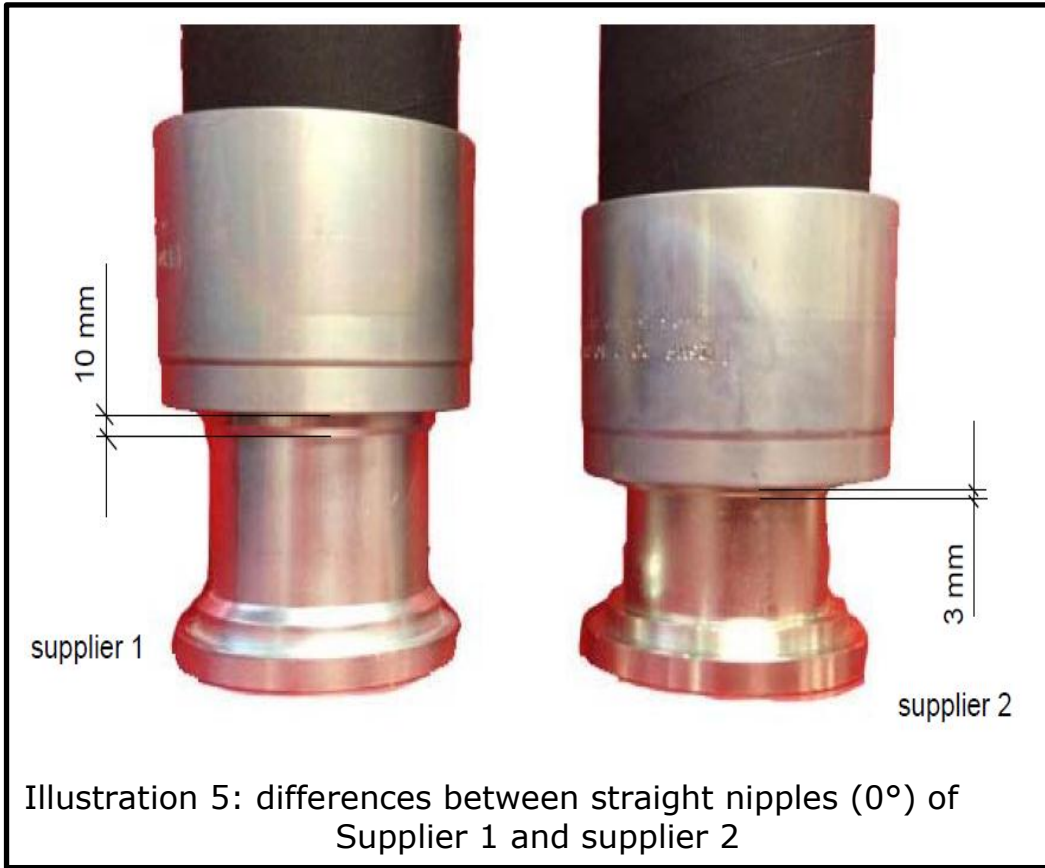
Illustration 2: Part-Number and production date (month/year) on hose fitting.



Illustration 3: Standard sleeve (**Good**)



Illustration 4: **Supplier 2** sleeve always with two machined rings on circumference. (**Bad**)



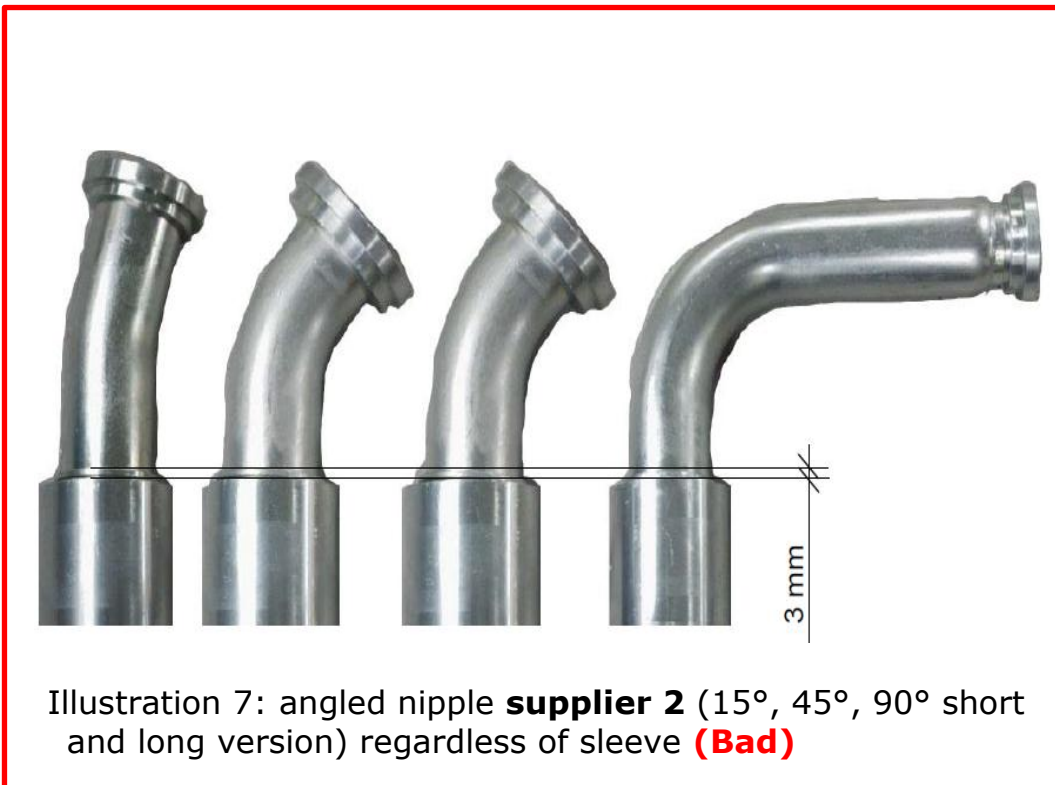


Table 1

Possibly affected machine Type / serial number	Part Number	SAP Number
Cat6060/6060FS (RH340, RH340B)		
	1 983 257	1 463 935
340094 - 340125	1 983 378	1 463 252
	1 983 904	1 451 584
	2 160 235	4 020 241
	2 168 954	4 020 356
	3 686 542	4 024 584
	3 686 543	1 463 443
	3 686 546	1 471 927
	3 687 800	1 451 552
	3 687 806	1 463 451
	3 687 812	1 463 452
	3 688 993	4 024 897
	3 689 141	1 463 456
	3 689 142	1 463 457
	3 689 143	1 463 458
	3 689 144	1 463 459
	3 689 145	1 463 460
	3 689 147	1 463 461
	3 689 148	1 463 462
	3 689 151	1 463 465
	3 693 467	1 451 553
	3 698 914	1 451 558
	3 698 916	1 451 555
	3 698 917	1 463 474
	3 699 657	1 490 518
	3 705 639	4 179 328
	3 705 640	4 179 329
	3 714 425	1 464 032
	3 717 064	4 026 299
	3 717 065	4 026 300
	3 717 068	4 026 302
	3 717 070	4 026 303
	3 717 085	4 026 305
	3 717 086	4 026 306
	3 717 613	4 026 317
	3 717 614	4 026 318
	3 719 233	4 026 431
	3 731 763	4 042 549
	3 731 764	4 042 550

Contact Details:

If the inspection identifies incorrectly manufactured hoses, please contact the Hastings Deering Service Department at our Excavation and Underground Coal Support division.

This bulletin is to inform you of the recommendations of the supplier in respect of issues dealt with in the bulletin and should not be used as specific advice in respect of any particular events. Advice from a qualified repairer should be sought in respect of any particular events and Hastings Deering (Australia) Ltd accepts no responsibility for any loss or damage occasioned by a party using this general bulletin.